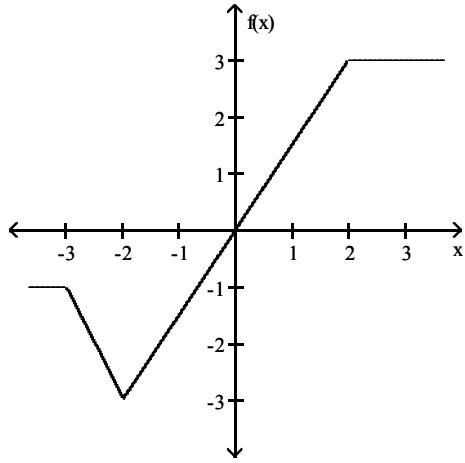


**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

Identify the open intervals where the function is changing as requested.

1) Increasing

1) \_\_\_\_\_



A)  $(-3, \infty)$

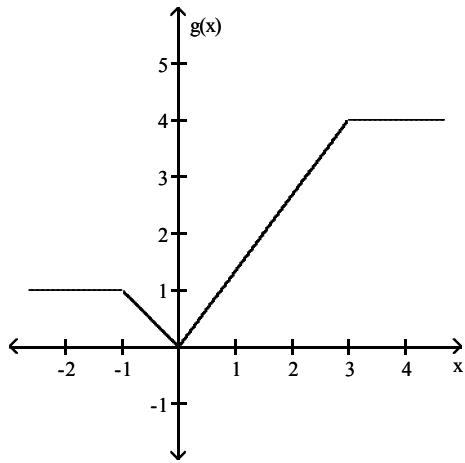
B)  $(-2, 2)$

C)  $(-3, 3)$

D)  $(-2, \infty)$

2) Increasing

2) \_\_\_\_\_



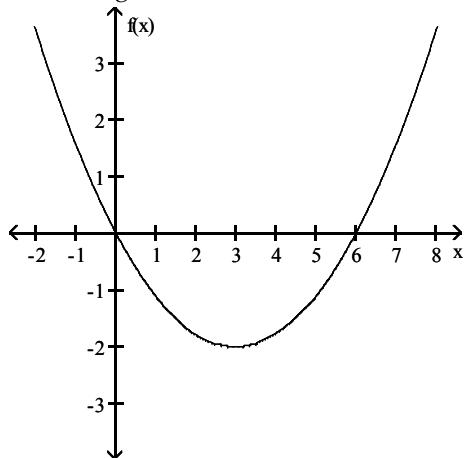
A)  $(0, 3)$

B)  $(-1, 0)$

C)  $(-\infty, 0)$

D)  $(-\infty, -1)$

3) Increasing



A)  $(3, \infty)$

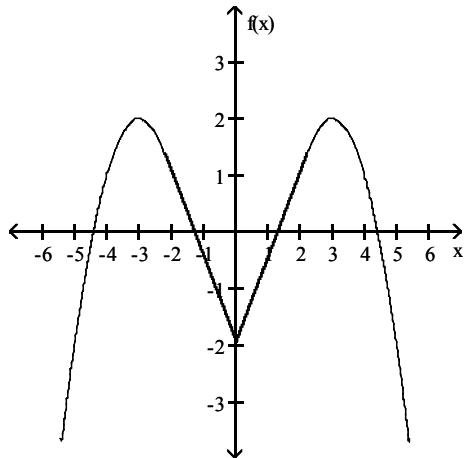
B)  $(-2, 0)$

C)  $(-2, \infty)$

D)  $(3, 6)$

3) \_\_\_\_\_

4) Decreasing



A)  $(-3, 0)$

B)  $(-3, 0), (3, \infty)$

C)  $(-\infty, -3), (0, 3)$

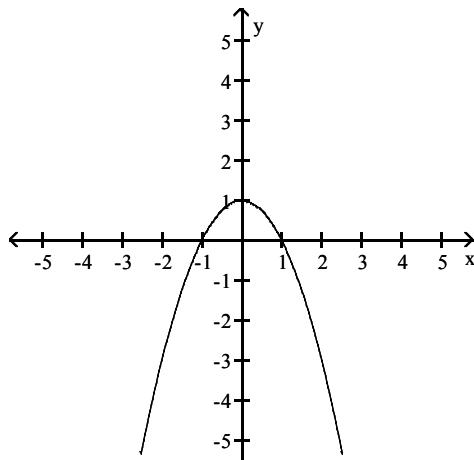
D)  $(-3, 3)$

4) \_\_\_\_\_

Suppose that the function with the given graph is not  $f(x)$ , but  $f'(x)$ . Find the open intervals where  $f(x)$  is increasing or decreasing as indicated.

5) Decreasing

5) \_\_\_\_\_



A)  $(-\infty, 0)$

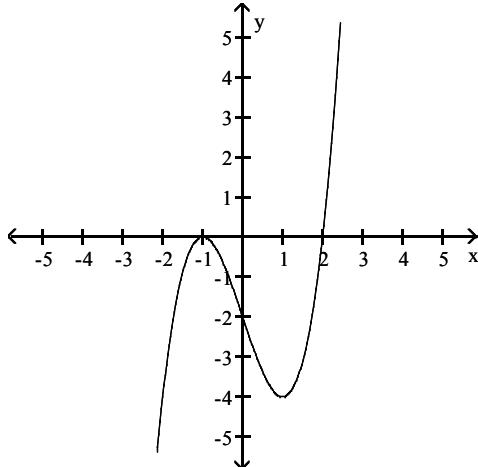
B)  $(0, \infty)$

C)  $(-\infty, -1), (1, \infty)$

D)  $(-1, 1)$

6) Decreasing

6) \_\_\_\_\_



A)  $(-\infty, 2)$

B)  $(-1, 2)$

C)  $(-\infty, -1), (-1, 2)$

D)  $(-\infty, 2)$

Find all the critical numbers of the function.

7)  $y = 2.5 - 3.9x + 1.2x^2$

7) \_\_\_\_\_

A)  $\frac{7}{12}$

B)  $-\frac{25}{24}$

C)  $\frac{13}{8}$

D)  $\frac{25}{39}$

8)  $f(x) = 2x^3 + 3x^2 - 36x + 8$

8) \_\_\_\_\_

A) -2

B) 6

C) -3, 2

D) 3, -2

9)  $f(x) = (x + 2)^{1/5}$

9) \_\_\_\_\_

A)  $\frac{2}{5}$

B) 2

C) -2

D) 10

10)  $y = x^{1/5} - x^{6/5}$

10) \_\_\_\_\_

A)  $\frac{1}{5}$

B)  $0, \frac{1}{6}$

C)  $-\frac{1}{5}, 0$

D)  $\frac{1}{6}$

Find the open interval(s) where the function is changing as requested.

11) Increasing;  $y = 7x - 5$

11) \_\_\_\_\_

A)  $(-\infty, 7)$

B)  $(-5, \infty)$

C)  $(-\infty, \infty)$

D)  $(-5, 7)$

12) Increasing;  $f(x) = x^2 - 2x + 1$

12) \_\_\_\_\_

A)  $(-\infty, 0)$

B)  $(-\infty, 1)$

C)  $(0, \infty)$

D)  $(1, \infty)$

13) Decreasing;  $f(x) = x^3 - 4x$

13) \_\_\_\_\_

A)  $\left(-\infty, -\frac{2\sqrt{3}}{3}\right)$

B)  $\left(\frac{2\sqrt{3}}{3}, \infty\right)$

C)  $(-\infty, \infty)$

D)  $\left(-\frac{2\sqrt{3}}{3}, \frac{2\sqrt{3}}{3}\right)$

14) Increasing;  $f(x) = \frac{1}{x^2 + 1}$

14) \_\_\_\_\_

A)  $(-\infty, 1)$

B)  $(1, \infty)$

C)  $(-\infty, 0)$

D)  $(0, \infty)$

- 15) Increasing;  $y = \sqrt{x^2 + 9}$       15) \_\_\_\_\_
- A)  $(0, \infty)$       B)  $(-\infty, 0)$       C)  $(-1, \infty)$       D) none

**Solve the problem.**

- 16) Suppose the total cost  $C(x)$  to manufacture a quantity  $x$  of insecticide (in hundreds of liters) is given by  $C(x) = x^3 - 27x^2 + 240x + 800$ . Where is  $C(x)$  decreasing?      16) \_\_\_\_\_
- A)  $(8, 800)$       B)  $(10, 800)$       C)  $(8, 10)$       D)  $(0, 800)$
- 17) The cost of a computer system increases with increased processor speeds. The cost  $C$  of a system as a function of processor speed is estimated as  $C(s) = 15s^2 - 6s + 1200$ , where  $s$  is the processor speed in MHz. Determine the intervals where the cost function  $C(s)$  is decreasing.      17) \_\_\_\_\_
- A)  $(0.2, \infty)$       B) Nowhere      C) Everywhere      D)  $(-\infty, 0.2)$
- 18) A probability function is defined by  $f(x) = \frac{1}{\sqrt{6\pi}} e^{-x^2/2}$ . Give the intervals where the function is increasing and decreasing.      18) \_\_\_\_\_
- A) increasing on  $(-\infty, 0)$ ; decreasing on  $(0, \infty)$       B) decreasing on  $(-\infty, \infty)$   
 C) increasing on  $(-\infty, \infty)$       D) increasing on  $(0, \infty)$ ; decreasing on  $(-\infty, 0)$

**Find the location and value of all relative extrema for the function.**



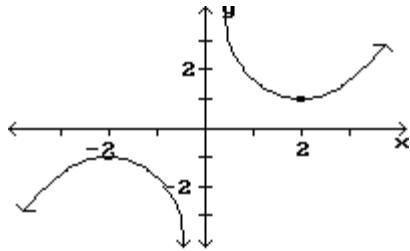
- A) Relative minimum of  $-1$  at  $-3$ ; Relative maximum of  $2$  at  $-1$ ; Relative minimum of  $1$  at  $2$ .  
 B) Relative minimum of  $-3$  at  $-1$ ; Relative maximum of  $-1$  at  $2$ ; Relative minimum of  $2$  at  $1$ .  
 C) Relative minimum of  $0$  at  $-2$ ; Relative maximum of  $-1$  at  $2$ ; Relative minimum of  $2$  at  $1$ .  
 D) Relative minimum of  $-1$  at  $-3$ ; Relative maximum of  $2$  at  $-1$ ; Relative minimum of  $0$  at  $2$ .



- A) None  
 B) Relative maximum of  $3$  at  $-2$ .  
 C) Relative minimum of  $0$  at  $2$ .  
 D) Relative maximum of  $3$  at  $-2$ ; Relative minimum of  $0$  at  $2$ .

21)

21) \_\_\_\_\_

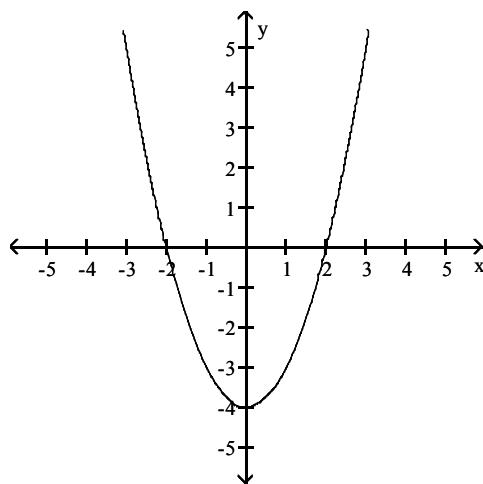


- A) Relative minimum of  $-1$  at  $-2$ .  
 B) Relative maximum of  $2$  at  $1$ .  
 C) Relative minimum of  $1$  at  $2$ ; Relative maximum of  $-1$  at  $-2$ .  
 D) None

Suppose that the function with the given graph is not  $f(x)$ , but  $f'(x)$ . Find the locations of all extrema, and tell whether each extremum is a relative maximum or minimum.

22)

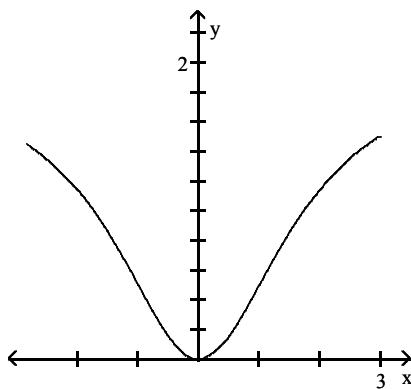
22) \_\_\_\_\_



- A) Relative minimum at  $-4$   
 B) Relative maxima at  $-2$  and  $2$   
 C) Relative maximum at  $-2$ ; relative minimum at  $2$   
 D) Relative minimum at  $-2$ ; relative maximum at  $2$

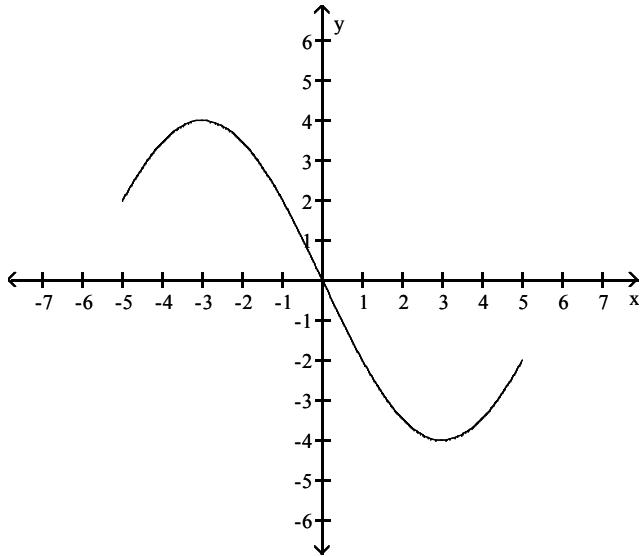
23)

23) \_\_\_\_\_



- A) Relative minimum at  $0$   
 C) Relative maxima at  $-3$  and  $3$   
 B) No relative extrema  
 D) Relative maximum at  $0$

24)



24) \_\_\_\_\_

- A) Relative minimum at 0  
 B) Relative maximum at -3; relative minimum at 3  
 C) Relative maximum at 0  
 D) No relative extrema

**Find the x-value of all points where the function has relative extrema. Find the value(s) of any relative extrema.**

25)  $f(x) = x^2 + 2x - 3$

25) \_\_\_\_\_

- A) Relative minimum of -4 at -1.  
 B) Relative minimum of 0 at -2.  
 C) Relative maximum of -4 at -1.  
 D) Relative minimum of -2 at 0.

26)  $f(x) = x^3 - 3x^2 + 1$

26) \_\_\_\_\_

- A) Relative maximum of 1 at 0; Relative minimum of -3 at 2.  
 B) No relative extrema.  
 C) Relative maximum of 1 at 0.  
 D) Relative maximum of 0 at 1; Relative minimum of -3 at -2.

27)  $f(x) = 3x^4 + 16x^3 + 24x^2 + 32$

27) \_\_\_\_\_

- A) Relative maximum of 48 at -2; Relative minimum of 32 at 0.  
 B) No relative extrema.  
 C) Relative minimum of 32 at 0.  
 D) Relative minimum of 30 at -1.

28)  $f(x) = \frac{1}{x^2 - 1}$

28) \_\_\_\_\_

- A) Relative maximum of 0 at 1.  
 B) Relative minimum of -1 at 0.  
 C) No relative extrema.  
 D) Relative maximum of -1 at 0.

29)  $f(x) = x^{4/3} - x^{2/3}$

29) \_\_\_\_\_

- A) Relative minimum of  $-\frac{1}{4}$  at  $\frac{\sqrt{2}}{4}$
- B) Relative maximum of 0 at 0; Relative minimum of  $-\frac{1}{4}$  at  $-\frac{\sqrt{2}}{4}$
- C) Relative maximum of 0 at 0; Relative minimum of  $-\frac{1}{4}$  at  $\frac{\sqrt{2}}{4}$  and  $-\frac{\sqrt{2}}{4}$
- D) No relative extrema.

30)  $f(x) = (\ln x)^2, x > 0$

30) \_\_\_\_\_

- A)  $(-1, -1)$ , relative maximum
- C)  $(1, -1)$ , relative maximum
- B)  $(1, 0)$ , relative minimum
- D)  $(-1, 0)$ , relative minimum

31)  $f(x) = x + \ln |x|$

31) \_\_\_\_\_

- A)  $(-1, -1)$ , relative maximum
- C)  $(1, -1)$ , relative maximum
- B)  $(1, 0)$ , relative minimum
- D)  $(-1, 0)$ , relative minimum

32)  $f(x) = (\ln 3x)^2, x > 0$

32) \_\_\_\_\_

- A)  $(-2, 0)$ , relative minimum
- C)  $(3e, 0)$ , relative minimum
- B)  $(1, 0)$ , relative minimum
- D)  $\left(\frac{1}{3}, 0\right)$ , relative minimum

33)  $f(x) = xe^{4x}$

33) \_\_\_\_\_

- A)  $\left(\frac{1}{4}, -\frac{1}{4e}\right)$ , relative maximum
- C)  $\left(-\frac{1}{4}, -\frac{e}{4}\right)$ , relative maximum
- B)  $\left(-\frac{1}{4}, -\frac{1}{4e}\right)$ , relative minimum
- D)  $\left(\frac{1}{4}, \frac{e}{4}\right)$ , relative minimum

34)  $f(x) = \frac{x^9}{5 \ln x}$

34) \_\_\_\_\_

- A) Relative maximum of 0 at 0; relative minimum of  $\frac{9}{5}e$  at  $e^{1/9}$
- B) Relative minimum of  $\frac{9}{5}e$  at  $e^{1/9}$
- C) Relative minimum of 0 at 0
- D) Relative minimum of  $-\frac{9}{5}e^{-1}$  at  $e^{-1/9}$

**Solve the problem.**

35) The annual revenue and cost functions for a manufacturer of grandfather clocks are approximately

35) \_\_\_\_\_

$R(x) = 480x - 0.03x^2$  and  $C(x) = 200x + 100,000$ , where  $x$  denotes the number of clocks made. What is the maximum annual profit?

- A) \$853,333      B) \$753,333      C) \$553,333      D) \$653,333

36) Find the number of units,  $x$ , that produces the maximum profit  $P$ , if  $C(x) = 25 + 56x$  and

$$p = 100 - 2x.$$

A) 44 units

B) 224 units

C) 11 units

D) 56 units

36) \_\_\_\_\_

37) Find the price  $p$  per unit that produces the maximum profit  $P$  if  $C(x) = 30 + 48x$  and  $p = 92 - 2x$ .

A) \$70

B) \$66

C) \$44

D) \$48

37) \_\_\_\_\_

38) Suppose a certain drug is administered to a patient, with the percent of concentration in the

$$\text{bloodstream } t \text{ hr later given by } K(t) = \frac{6t}{t^2 + 1}.$$

On what time interval is the concentration of the drug

increasing?

A)  $(0, 6)$

B)  $(1, \infty)$

C)  $(6, \infty)$

D)  $(0, 1)$

38) \_\_\_\_\_

**Find  $f''(x)$  for the function.**

39)  $f(x) = 4x^2 + 3x - 8$

A) 0

B) 4

C) 8

D)  $8x + 3$

39) \_\_\_\_\_

40)  $f(x) = 2x^{3/2} - 6x^{1/2}$

A)  $3x^{1/2} - 3x^{-1/2}$

C)  $1.5x^{1/2} + 1.5x^{-1/2}$

B)  $3x^{-1/2} + 3x^{-3/2}$

D)  $1.5x^{-1/2} + 1.5x^{-3/2}$

40) \_\_\_\_\_

41)  $f(x) = x^2 + \sqrt{x}$

A)  $\frac{8x^{3/2} - 1}{4x^{3/2}}$

B)  $\frac{2x^{3/2} + 1}{x^{3/2}}$

C)  $\frac{2x^{3/2} - 1}{x^{3/2}}$

D)  $\frac{8x^{3/2} + 1}{4x^{3/2}}$

41) \_\_\_\_\_

**Find the requested value of the second derivative of the function.**

42)  $f(x) = x^4 + 4x^3 - 4x + 7$ ; Find  $f''(6)$ .

A) 571

B) -575

C) 580

D) 576

42) \_\_\_\_\_

**Find  $f''(x)$  for the function.**

43)  $f(x) = 9e^{-x^2}$

A)  $36x^2 e^{-x^2} - 18e^{-x^2}$

C)  $18x^2 e^{-x^2}$

B)  $36x^2 e^{-x^2} + 9e^{-x^2}$

D)  $27xe^{-x^2} + 18e^{-x^2}$

43) \_\_\_\_\_

**Find the requested value of the second derivative of the function.**

44)  $f(x) = 9x^2 + 9x - 9$ ; Find  $f''(0)$ .

A) 0

B) 18

C) -18

D) 9

44) \_\_\_\_\_

45)  $f(x) = 7e^{-x^2}$ ; Find  $f''(2)$ .

A)  $98e^{-4}$

B)  $112e^4$

C)  $126e^{-8}$

D)  $105e^{-8}$

45) \_\_\_\_\_

**Find the indicated derivative of the function.**

46)  $f'''(x)$  of  $f(x) = 6x^3 + 6x^2 - 6x$

A) 18

B)  $18x + 36$

C)  $36x + 18$

D) 36

46) \_\_\_\_\_

47)  $f(4)(x)$  of  $f(x) = 2x^6 - 4x^4 + 6x^2$

A)  $720x^2 - 96x$

B)  $480x^2 - 48x$

C)  $720x^2 - 96$

47) \_\_\_\_\_

D)  $480x^2 - 48$

48)  $f'''(x)$  of  $f(x) = \frac{x}{x+1}$

48) \_\_\_\_\_

A)  $-6(x+1)^{-4}$

B)  $6(x+1)^{-4}$

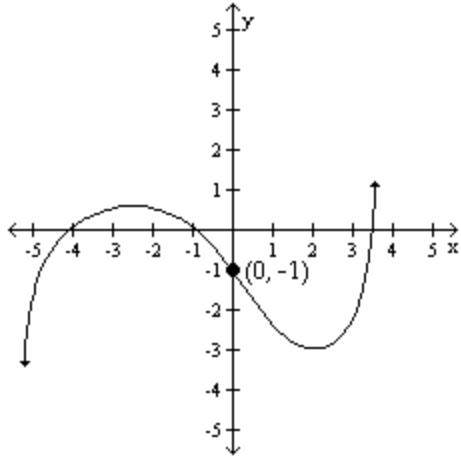
C)  $-6(x+1)^{-3}$

D)  $6(x+1)^{-3}$

**Find the open intervals where the function is concave upward or concave downward. Find any inflection points.**

49)

49) \_\_\_\_\_

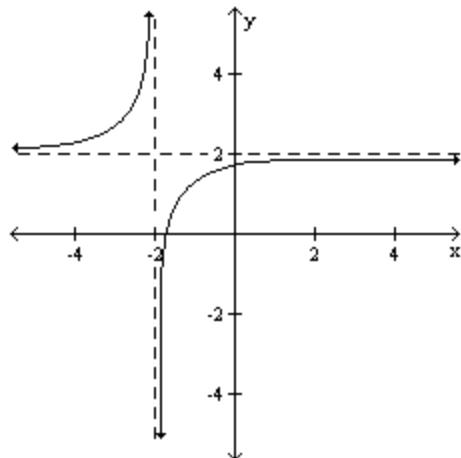
A) Concave upward on  $(0, \infty)$ ; concave downward on  $(-\infty, 0)$ ; inflection points at  $(-4, 0)$ ,  $(-1, 0)$ ,

and  $\left(\frac{7}{2}, 0\right)$

B) Concave upward on  $(0, \infty)$ ; concave downward on  $(-\infty, 0)$ ; inflection point at  $(0, -1)$ C) Concave upward on  $(-1, \infty)$ ; concave downward on  $(-\infty, 2)$ ; inflection point at  $(2, -3)$ D) Concave upward on  $(-1, \infty)$ ; concave downward on  $(-\infty, 2)$ ; inflection points at  $(-1, 0)$  and  $(2, -3)$ 

50)

50) \_\_\_\_\_

A) Concave upward on  $(-2, \infty)$ ; concave downward on  $(\infty, -2)$ ; inflection point at  $(-2, 2)$ B) Concave upward on  $(-\infty, -2)$ ; concave downward on  $(-2, \infty)$ ; no inflection pointsC) Concave upward on  $(-\infty, -2)$ ; concave downward on  $(-2, \infty)$ ; inflection point at  $(-2, 2)$ D) Concave upward on  $(-2, \infty)$ ; concave downward on  $(-\infty, -2)$ ; no inflection points

**Find the largest open intervals where the function is concave upward.**

51)  $f(x) = x^2 + 2x + 1$  51) \_\_\_\_\_  
A)  $(-1, \infty)$       B)  $(-\infty, -1)$       C) None      D)  $(-\infty, \infty)$

52)  $f(x) = 4x^3 - 45x^2 + 150x$  52) \_\_\_\_\_  
A)  $\left(-\frac{15}{4}, \infty\right)$       B)  $\left(-\infty, -\frac{15}{4}\right)$       C)  $\left(-\infty, \frac{15}{4}\right)$       D)  $\left(\frac{15}{4}, \infty\right)$

53)  $f(x) = x^3 - 3x^2 - 4x + 5$  53) \_\_\_\_\_  
A)  $(-\infty, 1), (1, \infty)$       B) None      C)  $(1, \infty)$       D)  $(-\infty, 1)$

54)  $f(x) = \frac{x}{x^2 + 1}$  54) \_\_\_\_\_  
A) None      B)  $(-\infty, -1), (-1, \infty)$       C)  $(\sqrt{3}, \infty)$       D)  $(-\infty, -1)$

55)  $f(x) = 5x - 6e^{-x}$  55) \_\_\_\_\_  
A) None      B)  $(0, \infty)$       C)  $(-\infty, \infty)$       D)  $(-\infty, 0)$

**Find any inflection points given the equation.**

56)  $f(x) = 3x^2 + 12x$  56) \_\_\_\_\_  
A) Inflection point at  $(4, -12)$       B) No inflection points  
C) Inflection point at  $(-4, -12)$       D) Inflection point at  $(-2, -12)$

57)  $f(x) = \frac{8x}{x^2 + 4}$  57) \_\_\_\_\_  
A) Inflection points at  $(0, 0), (-2, -2), (2, 2)$   
B) Inflection points at  $(0, 0), (-2\sqrt{3}, -2\sqrt{3}), (2\sqrt{3}, 2\sqrt{3})$   
C) No inflection points  
D) Inflection points at  $(-2, -2), (2, 2)$

58)  $f(x) = \ln(10 - x^2)$  58) \_\_\_\_\_  
A) Inflection point at  $(0, -\ln 10)$       B) Inflection point at  $(0, \ln 10)$   
C) Inflection point at  $(-\ln 10, 0)$       D) No inflection points

**Solve the problem.**

59) The percent of concentration of a certain drug in the bloodstream  $x$  hours after the drug is administered is given by  $K(x) = \frac{5x}{x^2 + 9}$ . At what time is the concentration a maximum? 59) \_\_\_\_\_  
A) 3 hr      B) 0.9 hr      C) 0.5 hr      D) 5 hr

60) The population of a certain species of fish introduced into a lake is described by the logistic equation 60) \_\_\_\_\_

$$G(t) = \frac{15,000}{1 + 24e^{-1.2t}},$$

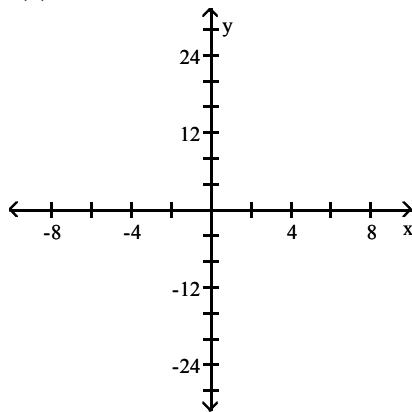
where  $G(t)$  is the population after  $t$  years. Find the point at which the growth rate of this population begins to decline.

- A)  $(3.81, 7500)$       B)  $(5.13, 11,250)$       C)  $(2.65, 7500)$       D)  $(3.56, 11,250)$

Sketch the graph and show all extrema, inflection points, and asymptotes where applicable.

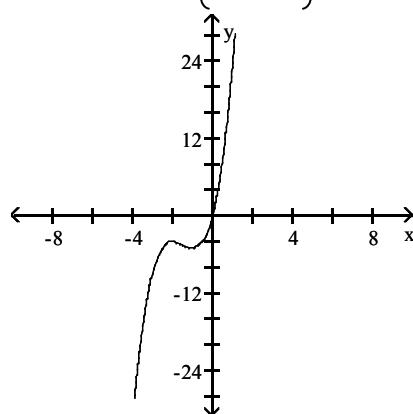
61)  $f(x) = 2x^3 + 9x^2 + 12x$

61) \_\_\_\_\_



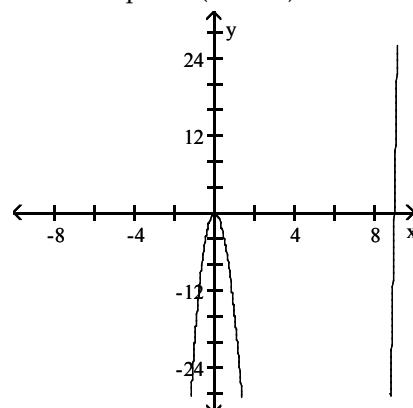
A) Rel max: (-2, -4), Rel min: (-1, -5)

Inflection point:  $\left(-\frac{3}{2}, -\frac{9}{2}\right)$



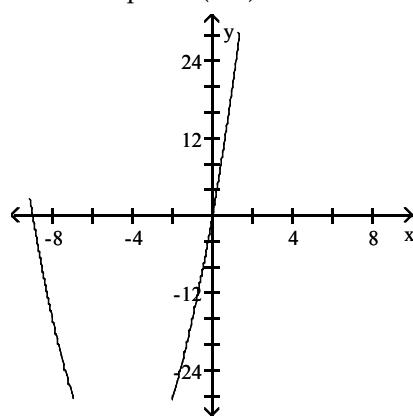
B) Rel max: (0, 0), Rel min: (-6, 216)

Inflection point: (-3, 108)



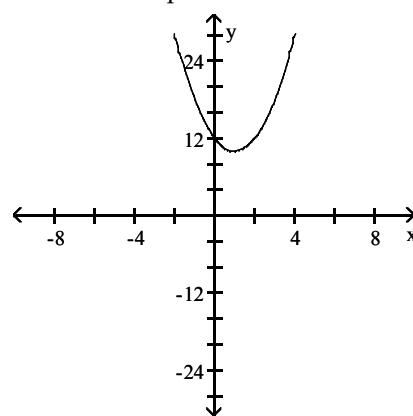
C) No extrema

Inflection point: (0, 0)



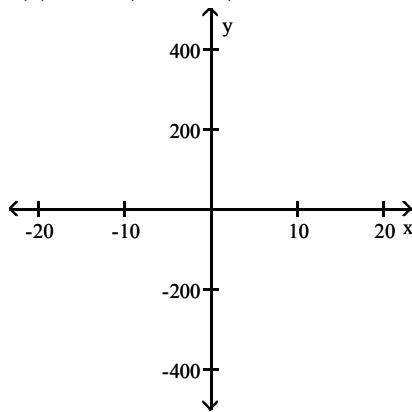
D) Rel min: (1, 10)

No inflection points

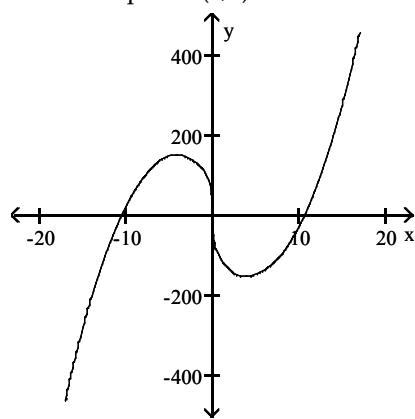


62)  $f(x) = x^{1/3}(x^2 - 112)$

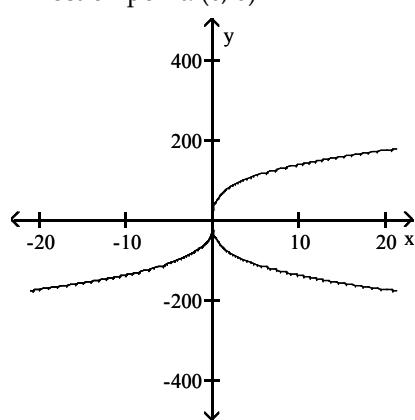
62) \_\_\_\_\_



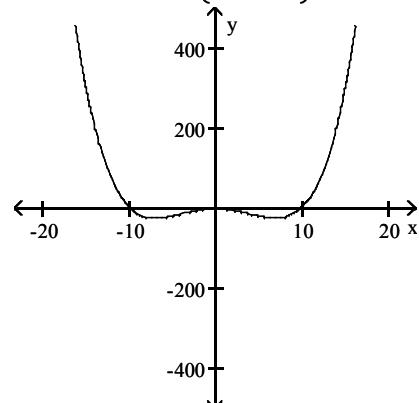
- A) Rel max:  $(-4, 96\sqrt[3]{4})$ , Rel min:  $(4, -96\sqrt[3]{4})$   
Inflection point:  $(0,0)$



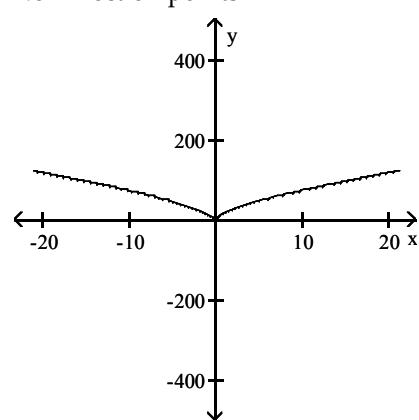
- C) No extrema  
Inflection point:  $(0,0)$



- B) Rel max:  $(0,0)$ , Rel min:  $(\pm\sqrt{48}, -24)$   
Inflection point:  $\left(\pm 4, -\frac{20}{3}\right)$

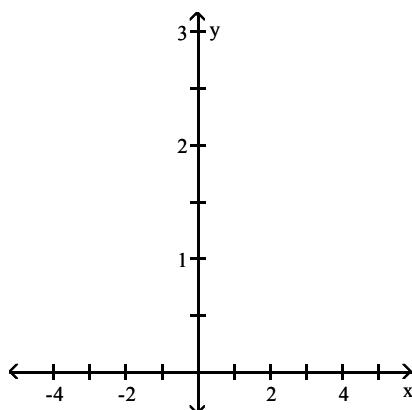


- D) Rel min:  $(0,0)$   
No inflection points

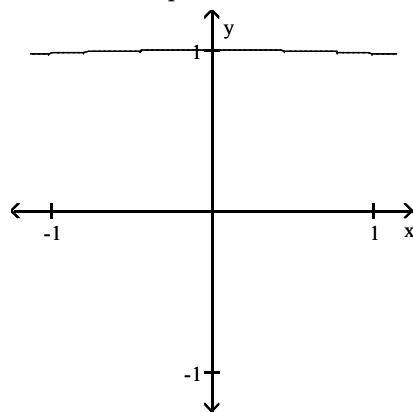


$$63) f(x) = \frac{1}{\sqrt{25 - x^2}}$$

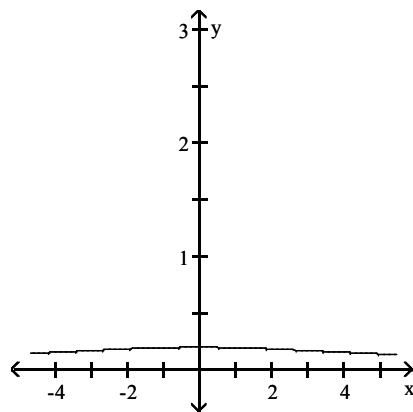
63) \_\_\_\_\_



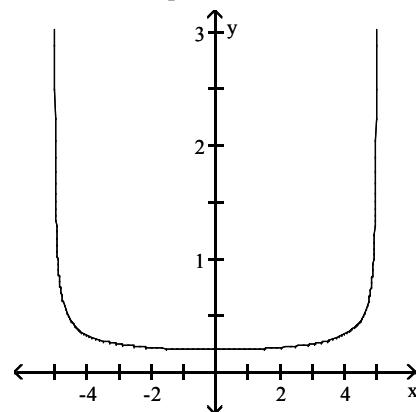
- A) Rel max:  $(0, 1)$   
No inflection points



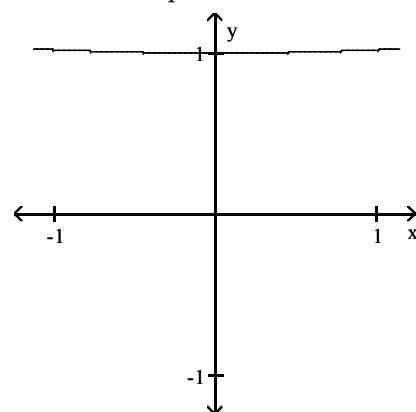
- C) Rel max:  $\left(0, \frac{1}{5}\right)$   
No inflection points



- B) Rel min:  $\left(0, \frac{1}{5}\right)$   
No inflection points

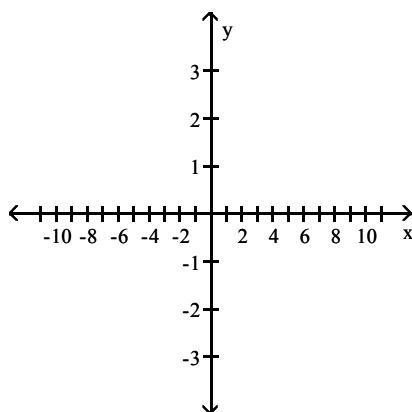


- D) Rel min:  $(0, 1)$   
No inflection points

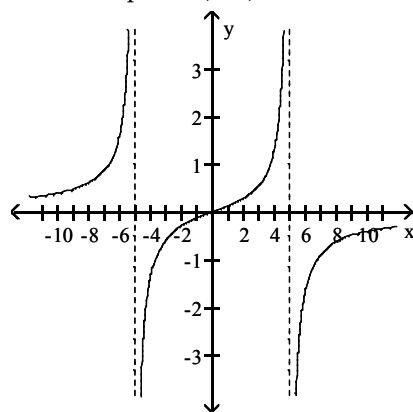


64)  $f(x) = \frac{3x}{x^2 - 25}$

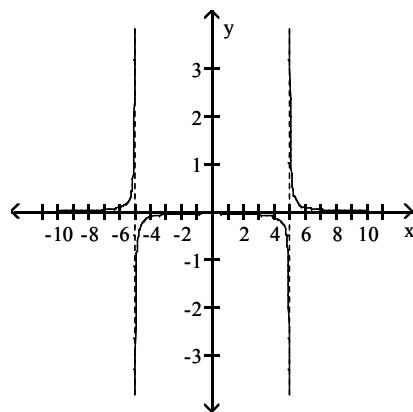
64) \_\_\_\_\_



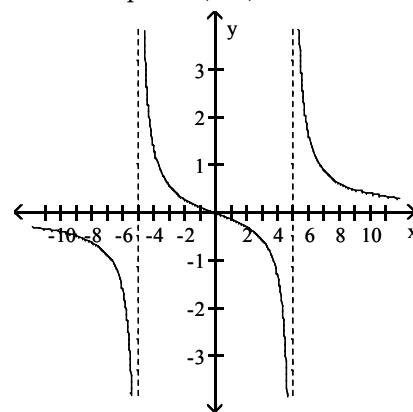
- A) No extrema  
Inflection point:  $(0, 0)$



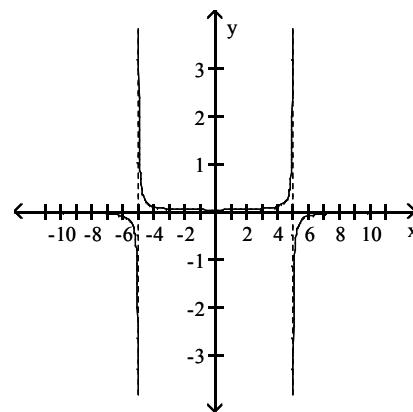
- C) Rel max:  $\left(0, -\frac{1}{25}\right)$   
No inflection points



- B) No extrema  
Inflection point:  $(0, 0)$

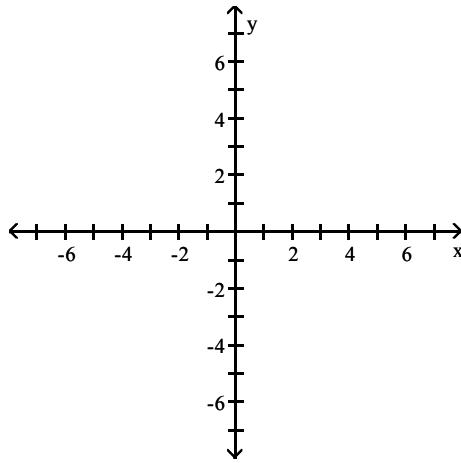


- D) Rel min:  $\left(0, \frac{1}{25}\right)$   
No inflection points

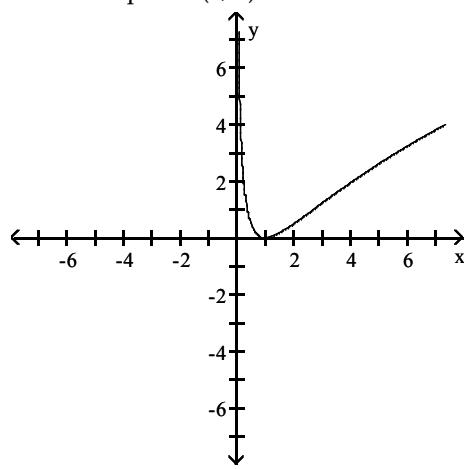


$$65) f(x) = \ln(x^2)$$

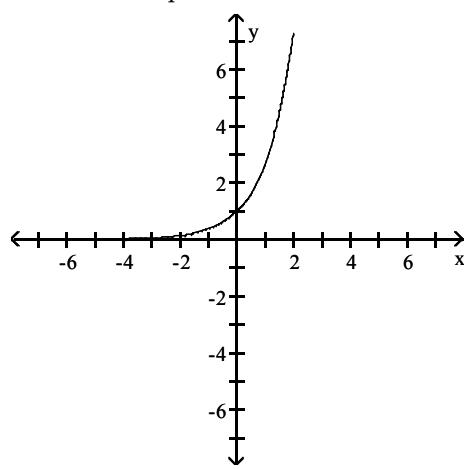
65) \_\_\_\_\_



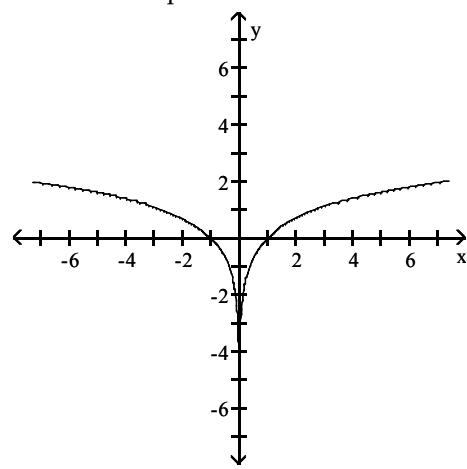
- A) Rel min:  $(1, 0)$   
Inflection point:  $(1, 0)$



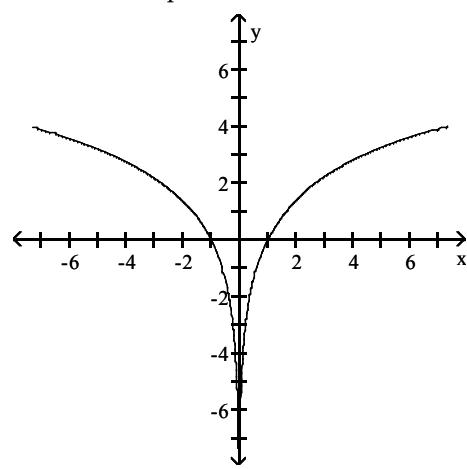
- C) Rel min:  $(-3, 0)$   
No inflection points



- B) No extrema  
No inflection points



- D) No extrema  
No inflection points

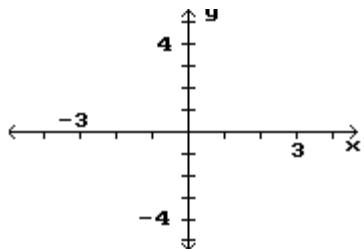


**SHORT ANSWER.** Write the word or phrase that best completes each statement or answers the question.

**Sketch a graph of a single function that has these properties.**

- 66) a) Continuous and differentiable for all real numbers  
b)  $f'(x) > 0$  on  $(-3, -1)$  and  $(2, \infty)$   
c)  $f'(x) < 0$  on  $(-\infty, -3)$  and  $(-1, 2)$   
d)  $f''(x) > 0$  on  $(-\infty, -2)$  and  $(1, \infty)$   
e)  $f''(x) < 0$  on  $(-2, 1)$   
f)  $f'(-3) = f'(-1) = f'(2) = 0$   
g)  $f''(x) = 0$  at  $(-2, 0)$  and  $(1, 1)$

66) \_\_\_\_\_



**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

**Find  $f''(x)$  for the function.**

67)  $f(x) = \sqrt{3x - 7}$  67) \_\_\_\_\_  
A)  $\frac{10}{4(3x - 7)^{3/2}}$       B)  $-\frac{9}{4(3x - 7)^{3/2}}$       C)  $\frac{9}{4(3x - 7)^{3/2}}$       D)  $-\frac{10}{4(3x - 7)^{3/2}}$

## Answer Key

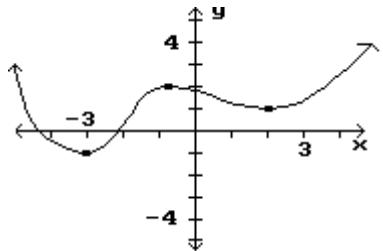
### Testname: PRACTICE FOR THE TEST

- 1) B
- 2) A
- 3) A
- 4) B
- 5) C
- 6) C
- 7) C
- 8) C
- 9) C
- 10) B
- 11) C
- 12) D
- 13) D
- 14) C
- 15) A
- 16) C
- 17) D
- 18) A
- 19) A
- 20) D
- 21) C
- 22) C
- 23) B
- 24) C
- 25) A
- 26) A
- 27) C
- 28) D
- 29) C
- 30) B
- 31) A
- 32) D
- 33) B
- 34) B
- 35) C
- 36) C
- 37) A
- 38) D
- 39) C
- 40) D
- 41) A
- 42) D
- 43) A
- 44) B
- 45) A
- 46) D
- 47) C
- 48) B
- 49) B
- 50) B

**Answer Key**

**Testname: PRACTICE FOR THE TEST**

- 51) D
- 52) D
- 53) C
- 54) C
- 55) A
- 56) B
- 57) B
- 58) D
- 59) A
- 60) C
- 61) A
- 62) A
- 63) B
- 64) B
- 65) D
- 66)



- 67) B