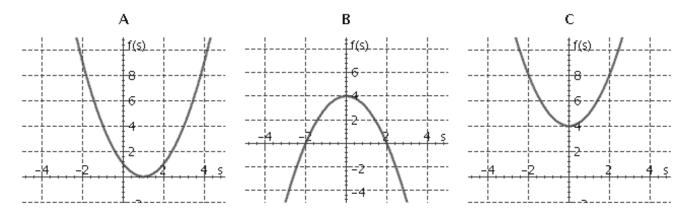
Class:____

1 Graph the function.

$$f(s) = s^2 + 4$$

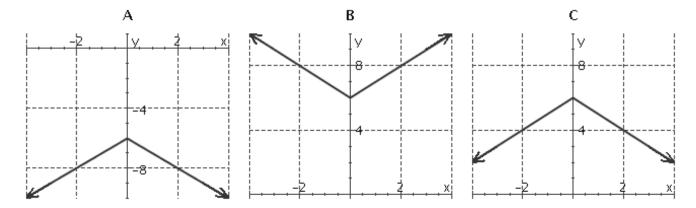
Select the correct graph.



2 Graph the function.

g(x) = |x| + 6

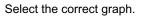
Select the correct graph.

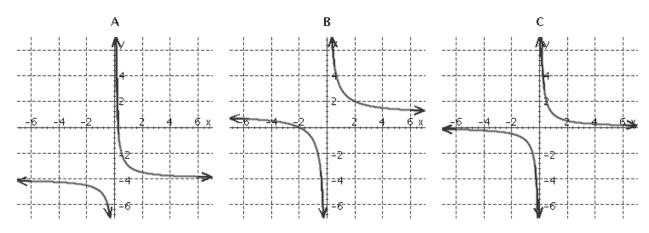


Class:____

3 Graph the function.

$$h(x) = \frac{1}{x} - 4$$

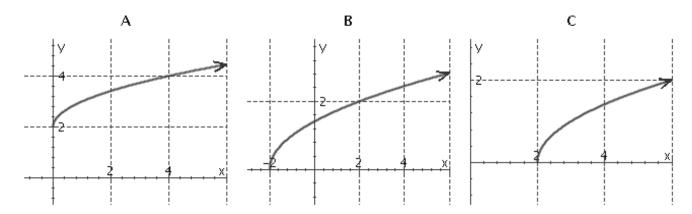




4 Graph the function.

 $g(x) = \sqrt{x+2}$

Select the correct graph.

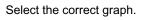


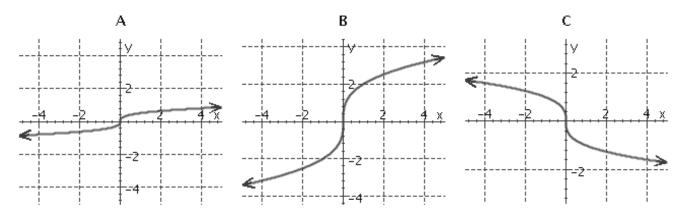
Class:____

Date: _____

5 Graph the function

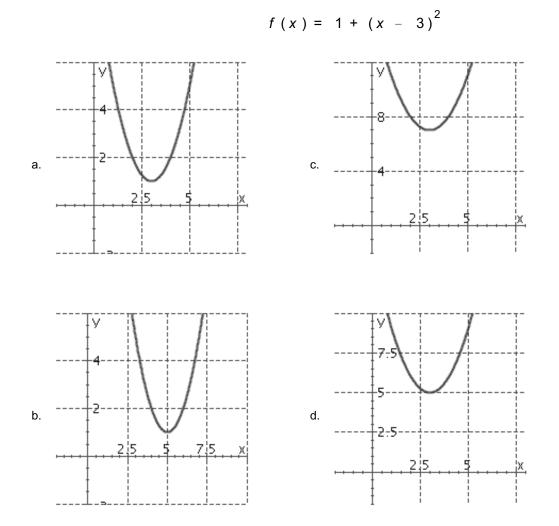
 $g(x) = 2\frac{3}{\sqrt{x}}.$





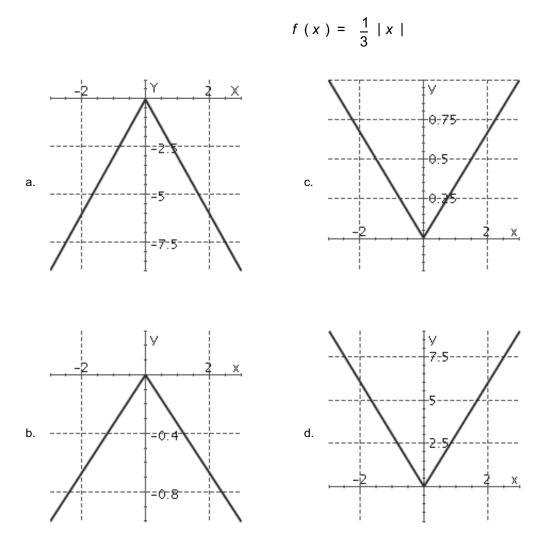
Date: _____

6 The graph of the function can be obtained from one of the basic graphs by two translations. Sketch the graph of the given function.



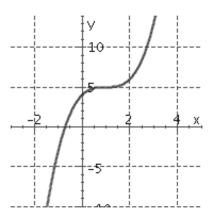
Date: _____

7 The graph of the function can be obtained from one of the basic graphs by compression. Find the graph of the given function.



Name:	Class:	Date:

8 Give an equation for the function graphed.





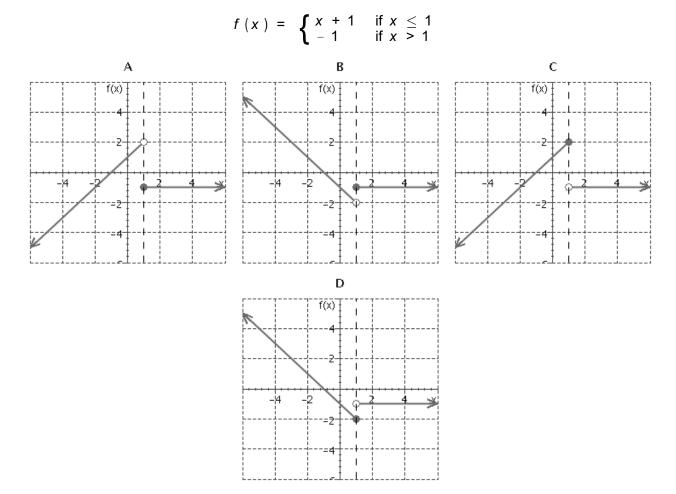
9 Find the range element associated with the domain element for $g(x) = \frac{3}{3x - 1}$, where x = -4.

10 Evaluate the function $f(x) = 3x^2 - x + 6$ for the expression, x = 2h.

11 Let $f(x) = x^3 - 1$, and evaluate the expression, f(2) + f(4).

12 Let $f(x) = x^2 - 1$, and evaluate the expression, 7f(x) + 8

13 Graph the function defined by



Select the letter that corresponds to the correct graph.

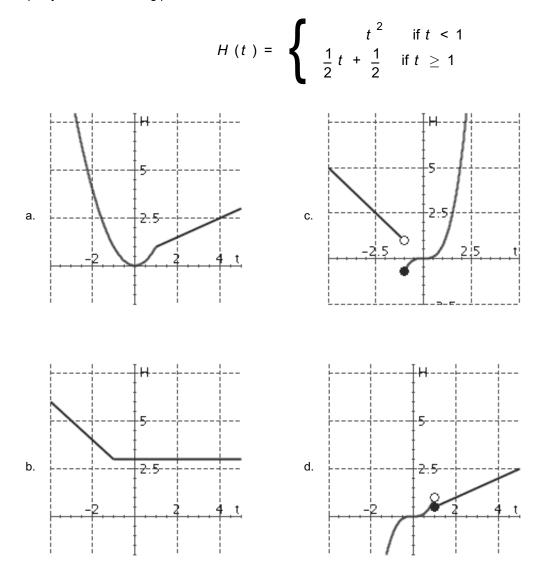
14 For this function compute the following expression.

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

 $f(5 + 4)$

a. 82 b. 78 c. 53 d. 57

15 Graph by hand the following piecewise – defined function.



16 Find the inverse of the function

$$f(x) = 5x - 2$$

17 Find the inverse of the function

$$f(x) = x^3 + 5$$

Does *f* "undo" the effect of the inverse function on x = -3?

Class:

18 Graph the function

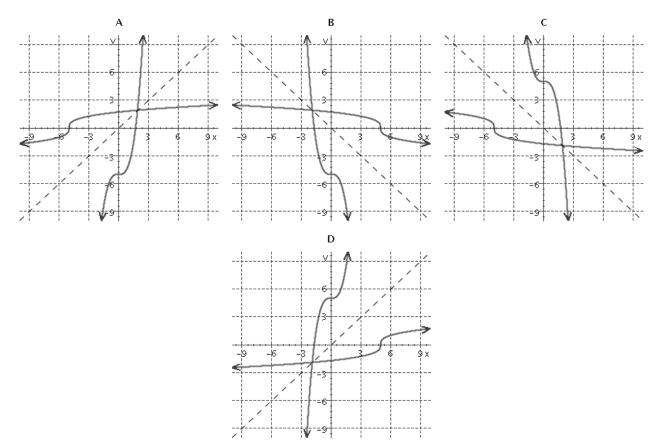
$$f(x) = x^3 + 5$$

and its inverse,

$$g(x) = \frac{3}{\sqrt{x-5}}$$

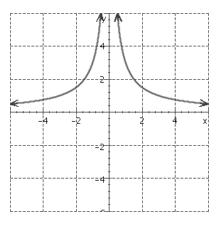
on the same set of axes.

Select the label that corresponds to the correct graph.



Name:	Class:	Date:

19 Does the function, graphed in the figure below, have an inverse that is also a function?



20 If h(x) = 3x - 6, find $h^{-1}(18)$.

ANSWER KEY

REV ch 10

1 . C			4. B	5. B	6. a	7. c
8. c	9. – frac(3,13)	10. f(2*h)=12*h^2- 2*h+ 6	11. 70	12 . ^{7*} x^2+	13. C	14. a
15. a	16. $g(x)=frac(x,5)+frac(2,5)$	17 . yes	18. D	19. no	20. 8	