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Wed, October 25th

12 days until Chapter 4 and 5 test

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Finish § 4.4 Ugly Quad Models from Verbal Descriptions

Start § 5.1 Polynomial Functions and Models

$A = L \cdot W$

$P = 2W + 2L$

MML Study Plan Prob 5)

a) Express A as a function of W
b) For what value of W is the Area largest?
c) What is the maximum area?

a) $A = L \cdot W$ $P = 2W + 2L$

$280 = 2W + 2L$

$140 - W = L$

$A(W) = (140 - W)W$

$y = (140 - x)x$

2nd calc Trace 4

LB enter
RB enter
Guess enter

$y = 140x - x^2$

$y_{max} = 0$

$x_{max} = 140$

$W = 70$ yards

$A = 4900$ yards

(70, 4900)

livescribe

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Finish § 4.4 Bldg Quad Models from Verbal Descriptions

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MML Study Plan Prob 5)

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$y = 140x - x^2$

$y_{min} = 0$

$x_{max} = 140$

$W = 70$ yards

$A = 4900$ yards

2nd Trace (4)

LB enter

RB enter

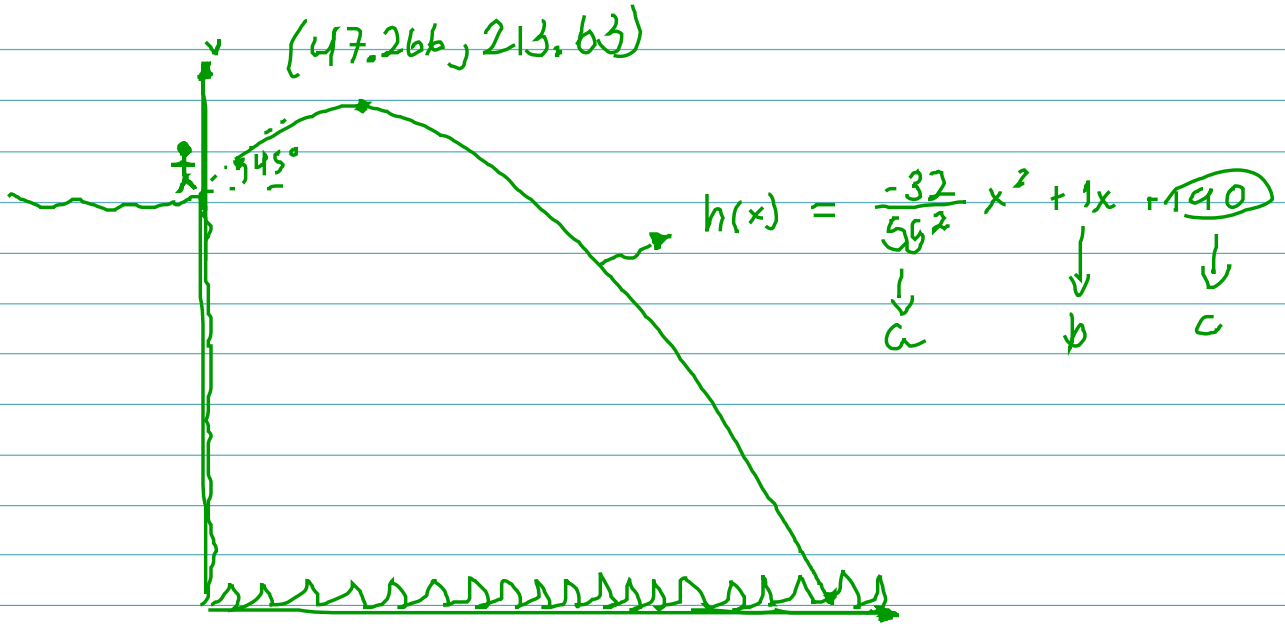
Guess enter

(70, 4900)

MML Study Plan Prob 7

$$h(x) = \frac{-32x^2}{55^2} + x + 140$$

APPROX, DO NOT USE



Part A) $\frac{3025}{64}$

Parabola $\left(\frac{-b}{2a}, c - \frac{b^2}{4a}\right)$

B) $\frac{27345}{64}$

C) $\frac{-b \pm \sqrt{b^2 - 4a}}{2a}$

~~$x \approx 45$ ft~~ extraneous

$x \approx 184$ ft

D) Graph

E) Approx 151 ft

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My Math Lab Study Plan Prob 16 and 17

$$g(x) = \frac{\pi - x^2}{8}$$

$$g(x) = \frac{\pi}{8} - \frac{x^2}{8}$$

$$g(x) = \frac{\pi}{8} - \frac{1}{8}x^2$$

$$g(x) = \boxed{\pi/8} + \boxed{0}x + \boxed{-1/8}x^2 + \boxed{0}x^3$$

$$g(x) = -\frac{1}{8}x^2 + \frac{\pi}{8}$$

It is a polynomial

$-\frac{1}{8}x^2 + \frac{\pi}{8}$ descending order

Degree 2

constant term: $\frac{\pi}{8}$

leading: $-\frac{1}{8}x^2$

$$f(x) = 4 - \frac{5}{x}$$

$$= 4 - \frac{5}{1} \cdot \frac{1}{x}$$

x^{-1} $x^{-n} = \frac{1}{x^n}$

$$= 4 - 5x^{-1}$$

$\boxed{4} + \boxed{0}x + \boxed{0}x^2 + \boxed{0}x^3$

NOT A POLYNOMIAL

Prob 20

$g(x) = 8(x-4)^2(x^2+6)$

$8(x-4)(x-4)(x^2+6)$

$8(x^2-8x+16)(x^2+6)$

$(8x^2-64x+128)(x^2+6)$

$8x^4-64x^3+128x^2+48x^2-384x+768$

$8x^4-64x^3+176x^2-384x+768$