

Math 3H

- 8.2 Average Rate of Change Quiz
- Turn in 8.2 and questions
- March Calendar Math-Perimeter/Area (Green)
- 8.3 Solving Systems

Mar 3-12:57 PM

$$\frac{16 - 104}{1 - 5}$$

Mar 6-9:48 AM

Homework Questions...

④  $\frac{x-7}{x^2+14x+40}$        $\frac{(3.2 - 2.4)}{(-9 + +5)}$

$-\frac{1}{5}$  or  $-2$

Mar 3-1:01 PM

Make sure your sentence has the word (per ...)

Mar 6-9:54 AM

Ex 2) Find where  $f(x)=g(x)$

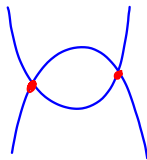
$F(x)=x^2-4$

$g(x)=-x^2+3$

$y_1 = x^2 - 4$

$y_2 = -x^2 + 3$

$x = 1.87$   
 $x = -1.87$



Mar 3-1:03 PM

Ex 3)  $f(x)=\sqrt{x+3}-2$

$g(x)=x-3$

$y_1 = \sqrt{x+3} - 2$

$y_2 = x - 3$



$x = 3.56$

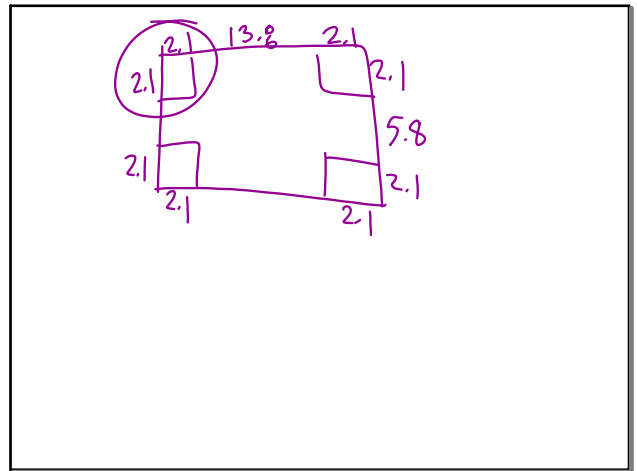
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Ex 4) An open box is made from a rectangular piece of cardboard measuring 10 in by 18 in by cutting identical squares from the corners and turning up the sides. (Box Problem)

What are the lengths of the sides of the removed squares if the area of the box is 80 in<sup>2</sup>

$(18-2x)$   
 $(10-2x)$   
 Length:  $18-2x$   
 Width:  $10-2x$   
 $Y_1 = (18-2x)(10-2x)$   
 $Y_2 = 80$   
 Domain:  $(0, 5)$   
 $x = 2.1$   
 $x = 11.9$   
 $2.1 \text{ in} \times 2.1 \text{ in}$

Mar 3-1:05 PM



Mar 6-10:24 AM

8.3 Solving Systems

Two functions are equal to each other where:

Where they intersect X-value

Ex1) Find where  $f(x)=g(x)$

f(x)	x
-1	5
0	10
-1	15
2	20

g(x)	x
-1	-5
0	5
-1	15
2	25

$x=1$

Mar 3-1:01 PM

Ex 5) Sam can paddle a canoe in still water at a speed of 30 meters per minute. If he paddles upstream 120 meters in 3 minutes, what is the speed of the current?

$d = r \cdot t$  rate:  $30 - c$   
 $\frac{120}{3} = (30 - c) \cdot \frac{3}{3}$   
 $40 = 30 - c$   
 $-30 -30$   
 $-10 = c$   
 Current is 10 m/m

Mar 3-1:07 PM


March Calendar Math-Perimeter and Area (green)

Fold CM

Mar 3-1:01 PM

13)  $W = 2h - 2$   
 $L = 3h - 4$   
 $H = h$   
 $V(x) = (2x-2)(3x-4)x$   
 $2240$   
 Width:  $3x-4$   
 Length:  $2x-2$   
 Height:  $x$

Mar 6-10:28 AM

⑮  $4x + 3y = 240$   
Isolate  $y$   
Area: 

Mar 6-10:33 AM