

1. (14, 10) and (-7, 1)

slope

$$M = \frac{10 - 1}{14 - 7}$$
 $M = \frac{10 - 1}{14 - 7}$
 $M = \frac{9}{21}$

 $3 = m \times + b$

(14, 10) and (-7, 1)

$$y = \frac{3}{7} \times + b$$

$$10 = 3/7(14) + 6$$

$$y = 3x + 4$$

(8, -1) and (2, 7)

$$M = \frac{-1 - 7}{8 - 2}$$

$$M = \frac{-8}{6}$$

$$m = \left(-\frac{4}{3}\right)$$

$$7 = -\frac{4}{3}(2) + 6$$

$$(37) = -\frac{881}{3} + 36$$

$$2(=-8+3b)$$

$$b = \frac{29}{3}$$

$$\boxed{3}$$
 (8, -1) and (2, 7) \nearrow

$$M = \frac{-1 - 7}{8 - 2}$$

$$M = \frac{-8}{6}$$

$$m = \left(-\frac{4}{3}\right)$$

$$7 = \frac{-4}{3}(2) + 6$$

$$\begin{array}{c}
A (-3x^{5}y^{4})(7x^{2}y), \\
D (4x^{6}y^{5})(-3xy)
\end{array}$$

$$\begin{array}{c}
E (3xy^{5})(-x^{2}y) \\
F (8xy^{2})(-x^{4}y^{3}) \\
\hline
P (8xy^{2})(-xy)
\end{array}$$

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\end{array}$$

$$\frac{I}{(-2x^{2}y^{3})^{2}} \left(\frac{L}{(-3x^{3}y^{2})^{2}} \right)^{2}$$

$$\frac{M}{(-2x^{3}y)^{3}} \left(\frac{N}{7x^{2}y^{5}} \right)^{2}$$

$$\frac{T}{(10^{4})^{3}} \left(\frac{U}{(10^{5})^{4}} \right)^{2}$$

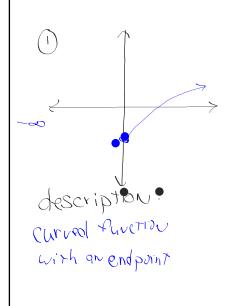
$$\frac{Q}{(7xy)^{2}(-xy)} = \frac{1}{2}$$

 $(-2)^3 (x^3)^3 y^3$ $-8 x^7 y^3$

HW Questions?

let's go over #86

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



- 2) Special point endpoint (0,2)
- 3) Domain
- (4) range
- 6) end behavior ® As x→+∞, +∞

 $y = \sqrt{x} - 2$

- (3) Asympt Nowl (8) Symmetrye Nowle

84 find intersection between

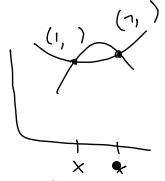
$$f(x) = 2x^2 - 3x + 4$$
 and $g(x) = x^2 + 5x - 3$

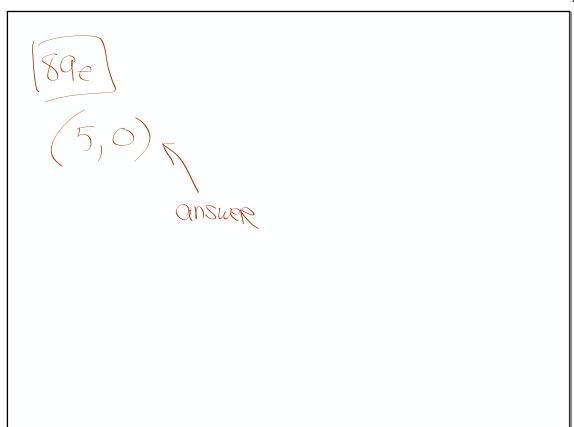
$$2x^2 - 3x + 4 = x^2 + 5x - 3$$

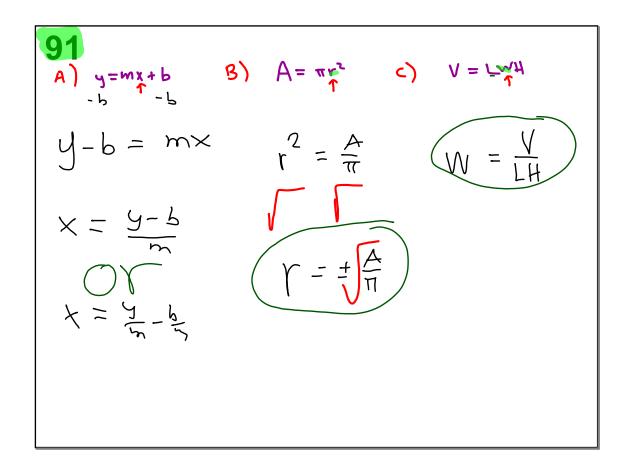
$$x^{2} - 8x + 7 = 0$$

 $(x - 7)(x - 1) = 0$
 $(x - 7)(x - 1) = 0$
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 $(x - 7)(x - 1) = 0$

$$\chi - 7 = 0$$
 $\chi - 1 = 0$ $\chi = 7$ $\chi = 7$





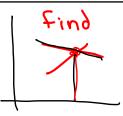


$$3) \quad 2x + \frac{1}{9} = 3$$



93
$$y = 3x + 15$$
 $y = 3-3x$

$$y = 3 - 3x$$

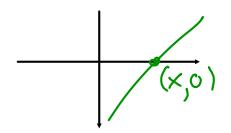


c) Write an equation that does not contain y and solve it for x

$$3x + 15 = 3 - 3x$$

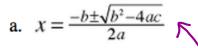


d) Use the x-value you found to find the corresponding y- value





97 MATCHING



1. Law of Cosines

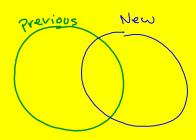
b. $\frac{\sin A}{a} = \frac{\sin B}{b}$

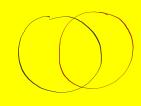
2. Law of Sines

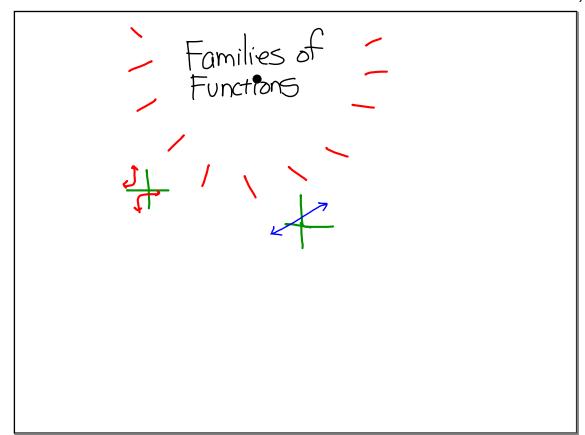
c. $c^2 = a^2 + b^2$

- 3. Pythagorean Theorem
- d. $c^2 = a^2 + b^2 2ab\cos C$
- 4. Quadratic Formula

Learning is always easier if one can initially make a connection to what you already Know









d

Determine whether relationships given in tables and situations are linear or not.



Parameters give the function it's shape.

$$y = mx + b$$

$$y = \frac{1}{x - h}$$

$$y = 0$$

$$y = 0$$

what do all functions in the family

have in common?

December 16, 2019

is
$$2y + 5x = 7$$
 linear?
 $y = mx + b$

$$y = -5x + 7$$

$$y$$

Activity to determine if a situation is linear.

- 1. Decide if it is linear or not.
- 2. If linear, what is it's equation.

Groups to present their findings

- can show something on the doc cam to assist
- or write on the smart board.

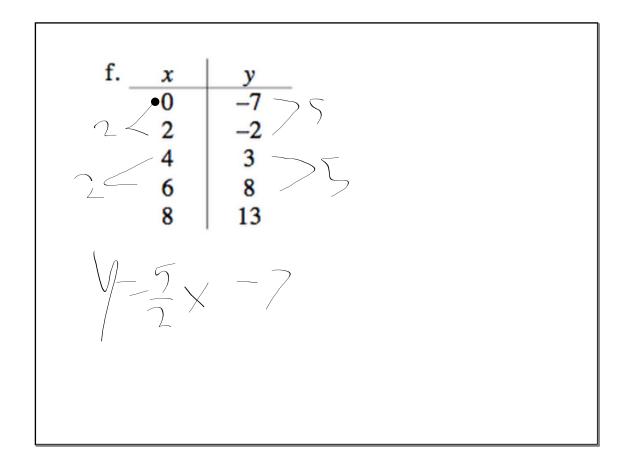
a.	Pieces of Bread	Grams
	Бгеаа	of Fiber
	_ 0	0 ->
	<u>1</u>	5
	<2	10
	< 3	15
	4	20
\\ \\		

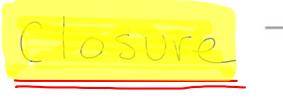
b. Killer Fried Chickens charges \$7.00 for a basic bucket of chicken and \$0.50 for each additional piece. The input is the number of extra pieces of chicken ordered, and the output is the total cost of the order.

y=0.5+7

c.
$$\frac{x}{10}$$
 $\frac{y}{5}$ $\frac{5}{5}$ $\frac{5}{7}$ $\frac{5}{7}$

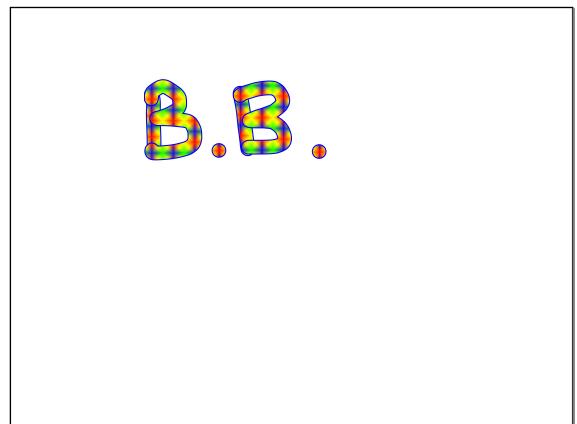
e. James planted a bush in his yard. The year he planted it, the bush produced 17 flowers.
Each year, the branches of the bush split, so the number of flowers doubles. The input is the year after planting, and the output is the number of flowers.





\boldsymbol{x}	у
1	0.5
4	-7
10	-22
15	-34.5

Decide if the relationship is linear.



LCQ

On this particular LCO: If you were absent friday, you wait to take this tomorrow as long as you come in before school or after school.

Assignment

1 104 to 110 and finish the back of today's warm up.

Ch. 1 Test this Thursday