

Pre-Algebra A-Block A

Agenda:

- Graphing Equations and Intercepts

To Do Now:

- Complete Warm Up
- Have a graphing calculator, and sign on.
- Have your homework on your desk (8-3 Skills #7-12)

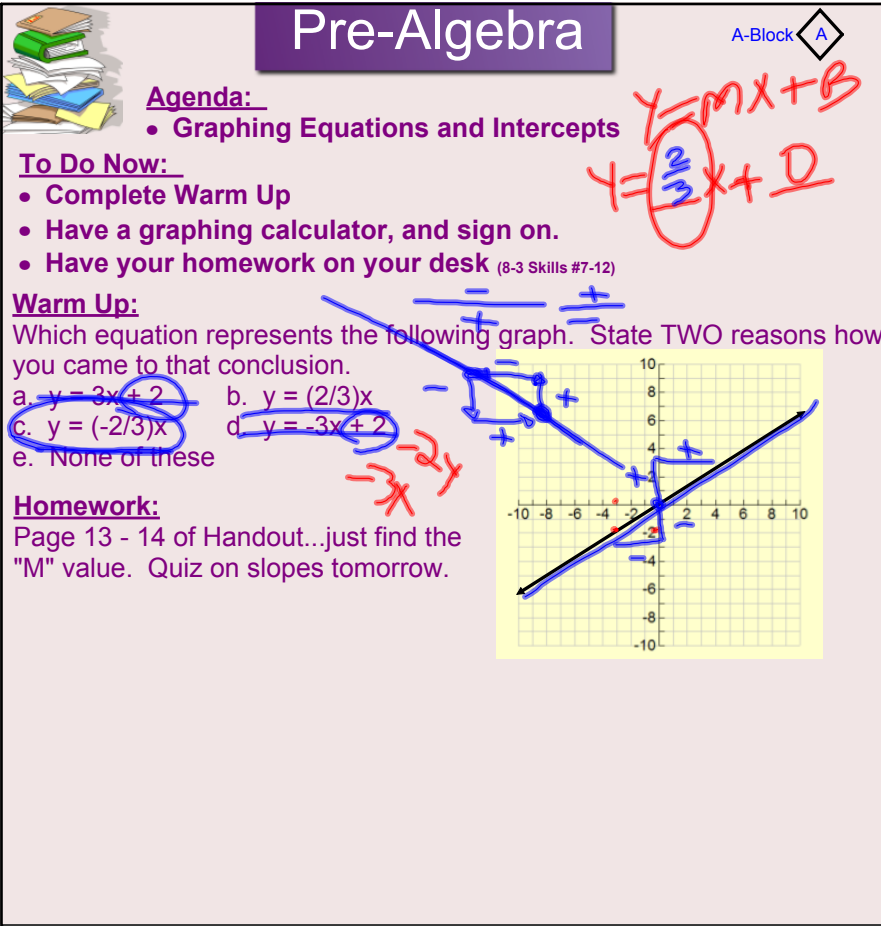
Warm Up:

Which equation represents the following graph. State TWO reasons how you came to that conclusion.

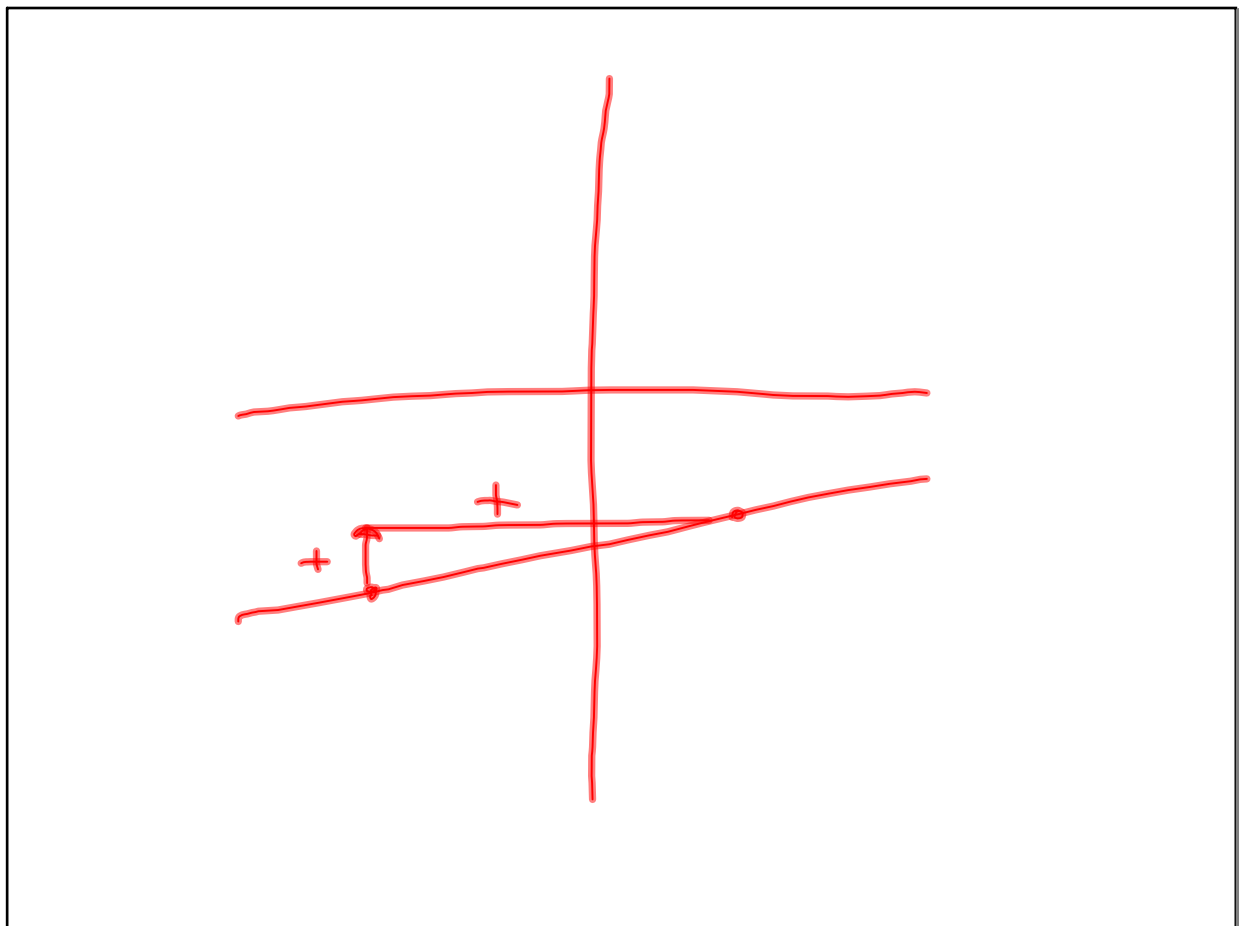
a. ~~$y = 3x + 2$~~ b. $y = (2/3)x$
c. $y = (-2/3)x$ d. ~~$y = -3x + 2$~~
e. None of these

Homework:

Page 13 - 14 of Handout...just find the "M" value. Quiz on slopes tomorrow.



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Slope - Intercept

Given the equation: $y = mx + b$

m = slope, rate of change,

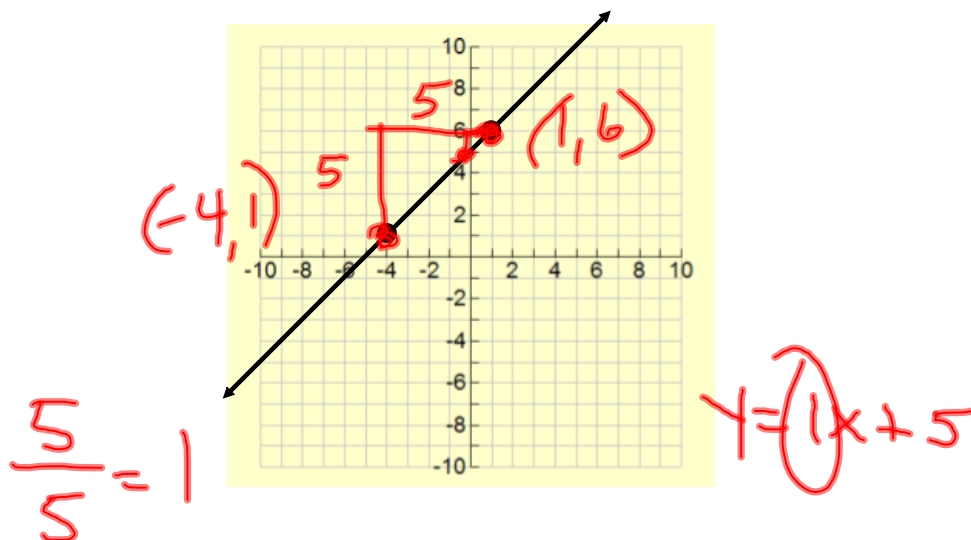
$$m = \frac{y}{x} = \frac{\text{rise}}{\text{run}} = \frac{\text{vertical change}}{\text{horizontal change}}$$

b = y-intercept

(point where the line is on the y-axis)

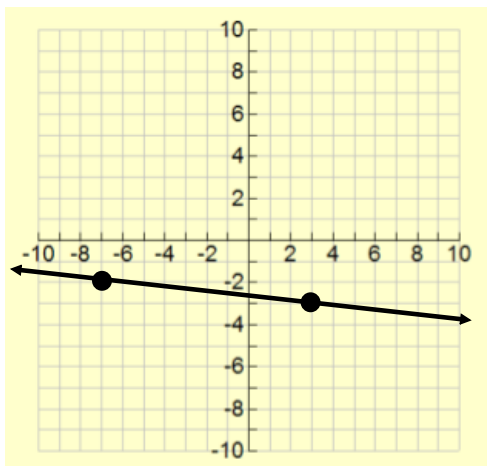
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Finding the Slope



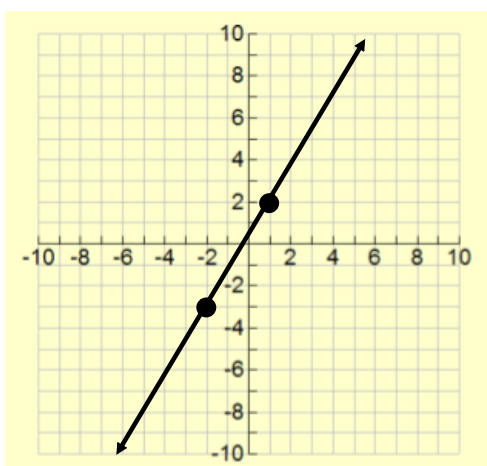
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Finding the Slope



Mar 30-1:18 PM

Finding the Slope



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Predicting the Sign (positive/negative) value of the slope:

What does a positive " m " slope look like?



What does a negative " m " slope look like?



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Slope - Intercept

A-Block 

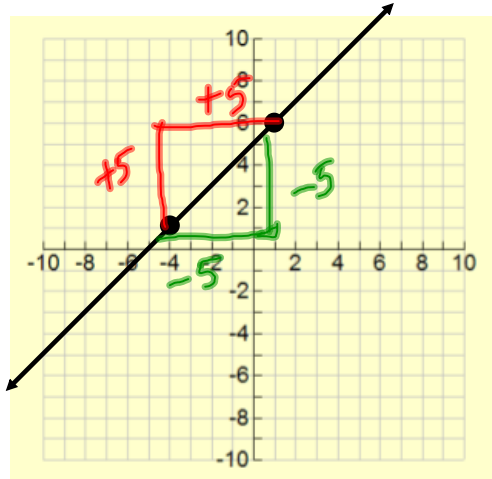
Given the equation: $y = mx + b$
 m = slope, rate of change,

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(point where the line is on the y-axis)

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Finding the Slope

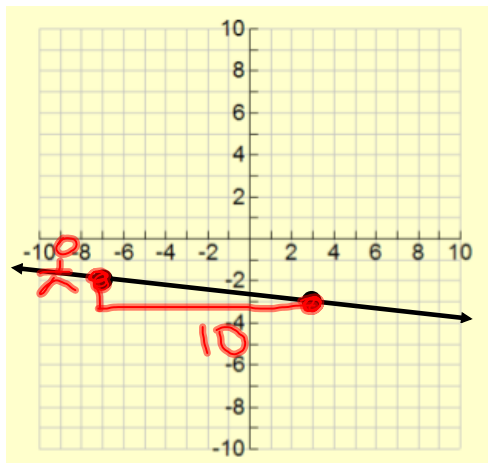


$$\frac{+5}{+5} = 1$$

$$\frac{-5}{-5} = 1$$

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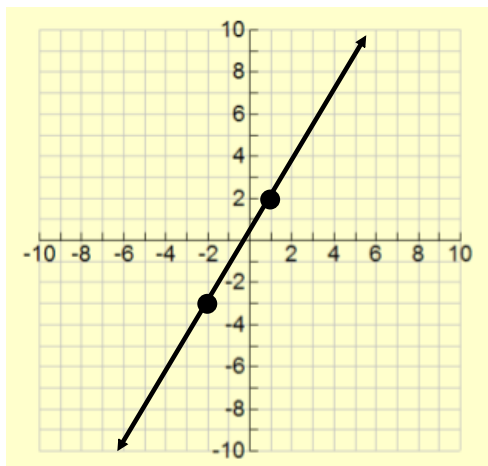
Finding the Slope



$$\frac{-1}{10}$$

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Finding the Slope



Mar 30-1:18 PM

Predicting the Sign (positive/negative) value of the slope:

What does a positive " m " slope look like?

•

What does a negative " m " slope look like?

•

Mar 30-1:22 PM



Intro to-Algebra

Agenda:

- Exponents/Radicals

To Do Now:

- Complete Warm up
- Have Graphing Calculator out and sign in...

Warm Up:

Find the value of n :

$$\left(\frac{x^3}{x^5}\right)^n = x^{-6}$$

Homework:

Cumulative Exponent Practice Handout
quiz on Monday-Exponents

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1.30

$$\frac{(3^2)^3 \cdot 4^6}{2^6}$$

$$\frac{3^6 \cdot 4^6}{2^6} = \frac{3^6 \cdot (2^2)^6}{2^6}$$

$$= \frac{3^6 \cdot 2^{12}}{2^6} =$$

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Exponents

Chapter 8.1 Page 453 #22 - 68

Chapter 8.2 Page 458 #14 - 45

Chapter 8.3 Page 466 #19 - 48

$$\frac{y^{2n-1}}{y^{2n}} = y^5$$

$$\frac{y^{4n-1}}{y^{2n}} = y^5$$

$$y^{4n-1-2n} = y^5$$

$$y^{2n-1} = y^5$$

$$2n-1=5$$

$$2n=6$$

$$n=3$$

$$\left(\frac{y^{3n}}{y^{5n-4}}\right)^2 = y^{20}$$

$$\frac{7+3}{3}$$

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$$\left(\frac{y^{3n}}{y^{5n-4}}\right)^2 = y^{20}$$

$$\frac{y^{6n}}{y^{10n-8}} = y^{20}$$

$$y^{6n-(10n-8)} = y^{20}$$

$$y^{-4n+8} = y^{20}$$

$$-4n = 12$$

$$n = -3$$

Mar 31-8:52 AM



Advanced Algebra

Agenda:

- Quadratic equations as graphs
- Test on Quadratic Word Problems Monday

To Do Now:

- Complete Warm Up
- Have homework out (Applications to Quadratic Functions)

Warm Up:

Write the equation for the axis of symmetry to $4(x - 3)^2 + 5 = y - 4$

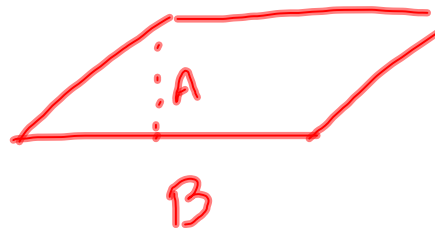
Homework:

Geometric Word Problems

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5-step plan

1. Define the variable... "Let $x = \dots$ "
2. Verbal Model
3. Algebraic Model
4. Solve
5. Answer the question

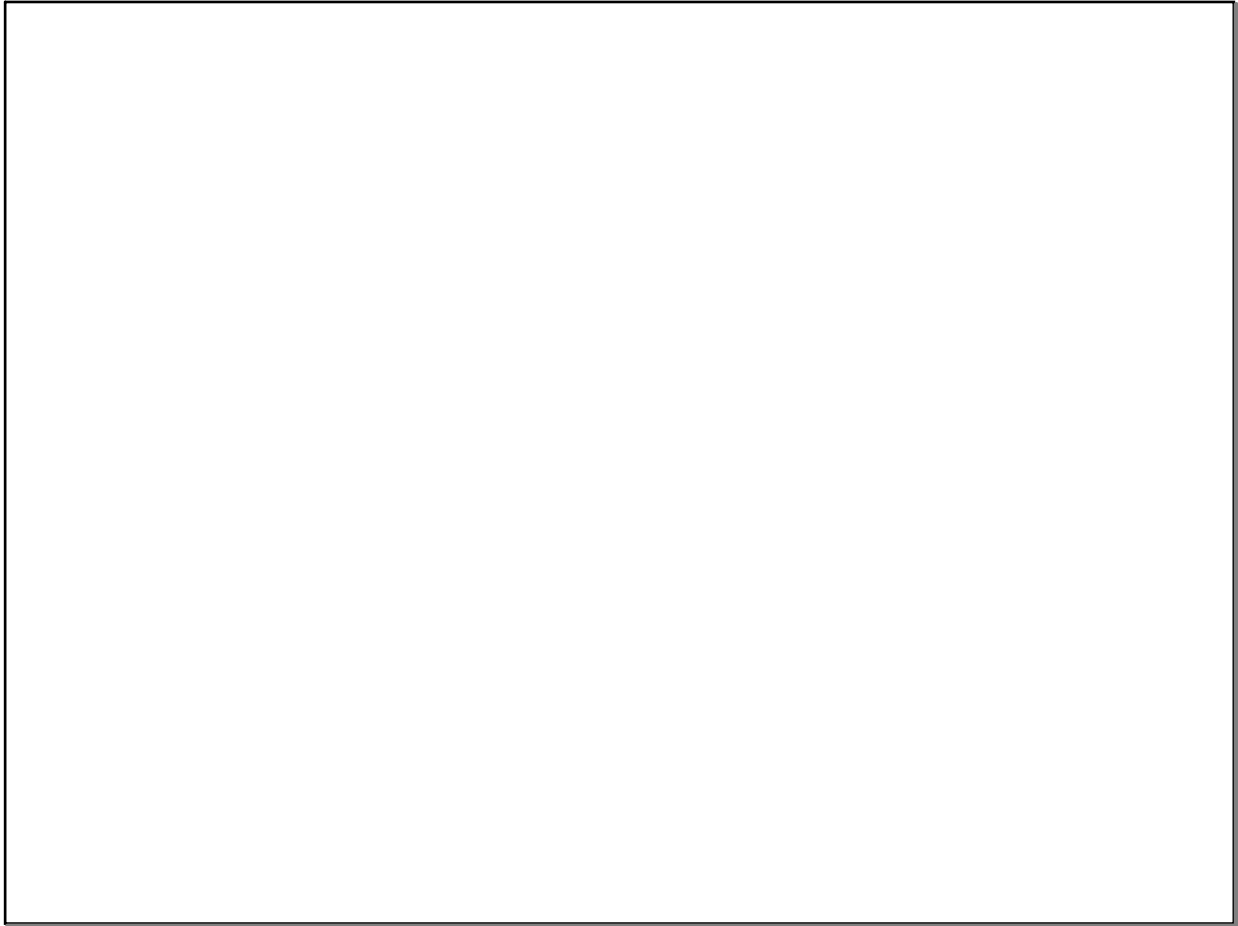


DEF $x = \underline{\hspace{2cm}}$

$\left. \begin{array}{l} \text{BASE} = 3x \\ \text{ALTITUDE} = 4x \\ \text{AREA} = 1200 \end{array} \right\}$

$\sqrt{m} \text{ (BASE) (ALT) = AREA}$
 $A \text{ cm } 3x (4x) = 1200$
 $\text{BASE} = 30 \text{ cm } x = 10$
 $\text{ANS ALT} = 40 \text{ cm } \text{ SOL}$

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Attachments

Exponents 2.edc

Patterns 3.edc