Bellwork

1. Write a one-variable equation and give to your partner to solve.

2. Write a proportion with a variable on each fraction. Then give it to your partner to solve.

Aug 21-7:37 AM

$\frac{x+3}{8} = \frac{x+1}{3}$

$8(x+1) = 3(x+3)$

$8x+8 = 3x+9$

$-3x \quad -3x$

$5x+8 = 9$

$-8 \quad -8$

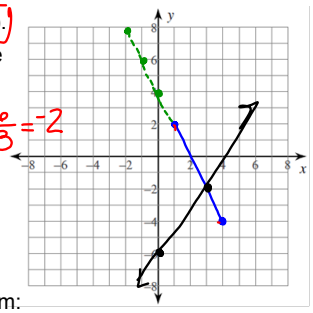
$\frac{5x}{5} = \frac{1}{5}$

Aug 24-8:32 AM

Plot the points (1,2) and (4,-4).

Draw the line that contains the two points.

slope: $\frac{y-y}{x-x} = \frac{-4-2}{4-1} = \frac{-6}{3} = -2$



y-intercept: (0,4)

x-intercept: (2,0)

equation in slope-intercept form: $y = -2x+4$

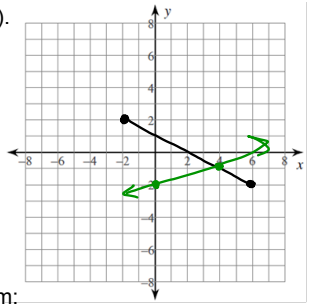
intersection with the line defined by the equation $y = \frac{4}{3}x - 6$: (3,-2)

Aug 21-11:12 PM

Plot the points (-2,2) and (6,-2).

Draw the line that contains the two points.

slope: $-\frac{1}{2}$



y-intercept: (0,1)

x-intercept: (2,0)

equation in slope-intercept form: $y = -\frac{1}{2}x+1$

intersection with the line defined by the equation $y = \frac{1}{4}x - 2$: (4,-1)

Aug 21-11:12 PM

Review

1. $\sqrt{75}$ $5\sqrt{3}$

2. $\sqrt{72}$ $6\sqrt{2}$

3. $4\sqrt{32}$ $16\sqrt{2}$

4. $-3\sqrt{48}$ $-12\sqrt{3}$

5. $10\sqrt{256}$

$10 \cdot 16$

160

6. $5\sqrt{8}+3\sqrt{98}$

$10\sqrt{2}+21\sqrt{2}$

$31\sqrt{2}$

Aug 21-7:22 PM

Conclusion

1. What is the slope formula? $\frac{y-y}{x-x}$
2. Where is the x-intercept located? x-axis
3. Where is the y-intercept located? y-axis
4. Rate yourself on simplifying radicals. A 1 is poor to a 5 excellent. Hold up your number infront of you when asked.

Aug 21-7:36 PM

Assignment

Algebra Review Worksheet #2

Aug 21-7:39 PM