Algebra 1   Bellwork   4th hour   Friday, January 22, 2016
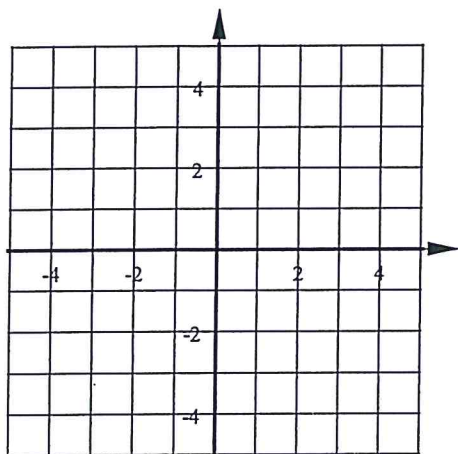
1. Are these two number Opposite Reciprocals?   1.6 & −0.625

Find the EXACT solution to each.

2. $\frac{2}{5} - \frac{7}{30}x = \frac{8}{15}$

3. $4 - 2(x - 3) - 3x \le 80$

4. Graph this function using at least 5 points. $y = -2(x - 2)^2 + 5$

Algebra 1   Bellwork   4th hour   Friday, January 22, 2016   **ANSWERS**

1. Are these two number Opposite Reciprocals?   1.6 & −0.625

$(1.6)(-0.625) = -1$

Yes   because their product = −1

Find the EXACT solution to each.

2. $30\left(\frac{2}{5} - \frac{7}{30}x\right) = \left(\frac{8}{15}\right)30$

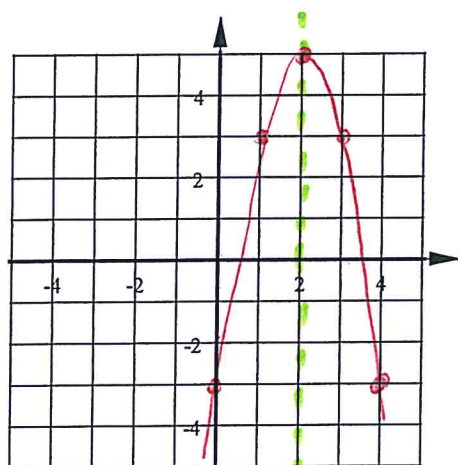$12 - 7x = 16$
$-12 \qquad -12$
$-7x = 4$

$\boxed{x = \frac{4}{-7}}$

3. $4 - 2(x - 3) - 3x \le 80$

$4 - 2x + 6 - 3x \le 80$
$-5x + 10 \le 80$
$ -10 \quad -10$

$\dfrac{-5x}{-5} \le \dfrac{70}{-5}$

$\boxed{x \ge -14}$

4. Graph this function using at least 5 points. $y = -2(x - 2)^2 + 5$

↓   ↘
2 RIGHT   5 up

X	Y
0	-3
1	3

plot these then Reflect over the line of symmetry

· LINE OF SYMMETRY

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