

Name: _____

Date: _____

CW # 1-2: Algebra 1 - Sections 2-5 to 2-7

30 points

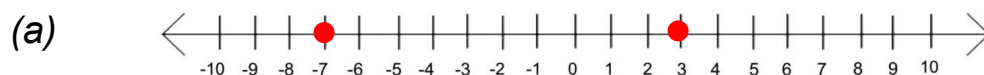
1. Solve each equation for the given variable:

(a) $|2x - 3| = 11$

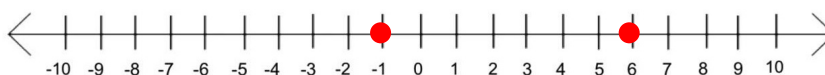
(b) $3|x - 4| + 1 = 10$

(c) $|x + 4| = -2$

2. Write (but don't solve) an absolute value equation for the following.



(b) Write (but don't solve) an absolute value equation for the following.



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No work No credit

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CW # 1-2: Algebra 1 - Sections 2-6 to 2-7

15 points

1. Solve each proportion:

(a) $\frac{4}{n+2} = \frac{7}{n}$

(b) $\frac{5}{r-9} = \frac{8}{r+5}$

(c) $\frac{n-6}{n-7} = \frac{9}{2}$

2. Write and Solve each proportion:

(a) The ratio of boys to girls in Ms. Alper's math classes is 5 : 7. If there are 60 students in all of her classes, how many are boys?

(b) Three pumps can remove a total of 1700 gallons of water per minute from a flooded mineshaft. If engineers want to remove at least 5500 gallons per minute, how many pumps will they need operating?

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CW # 1-2: Algebra 1 - Sections 2-6 to 2-7

15 points

3. Solve each literal equation for the given variable:

(a) $ax + by = c$ for y

(a) $R = C(1 + r)$ for r

(a) $S = 2\pi rh$ for r

(a) $V = \frac{KT}{P}$ for T

(a) $2x - 5y = 20$ for y

(a) $-3x + 7y = 14$ for y