Keystone Algebra 1   Name_____

Absolute Value Equations Revisited

Date_____ Period____

Solve each equation.

1) $\left|\dfrac{x}{9}\right| = 4$

2) $|n| = 2$

3) $|5a + 10| = 15$

4) $-5|8 + 10v| = -90$

5) $7|4x + 9| + 3 = 52$

6) $6 + 6|x + 7| = 78$

7) $2 + 5|n| = 37$

8) $\dfrac{|k|}{9} = 3$

9) $|6p| - 7 = -1$

10) $8|-7x + 8| = 104$

ID: 1

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Absolute Value Equations Revisited

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Solve each equation.

1) $\left|\dfrac{x}{9}\right| = 4$

$\{36, -36\}$

2) $\left|n\right| = 2$

$\{2, -2\}$

3) $\left|5a + 10\right| = 15$

$\{1, -5\}$

4) $-5\left|8 + 10v\right| = -90$

$\left\{1, -\dfrac{13}{5}\right\}$

5) $7\left|4x + 9\right| + 3 = 52$

$\left\{-\dfrac{1}{2}, -4\right\}$

6) $6 + 6\left|x + 7\right| = 78$

$\{5, -19\}$

7) $2 + 5\left|n\right| = 37$

$\{7, -7\}$

8) $\dfrac{\left|k\right|}{9} = 3$

$\{27, -27\}$

9) $\left|6p\right| - 7 = -1$

$\{1, -1\}$

10) $8\left|-7x + 8\right| = 104$

$\left\{-\dfrac{5}{7}, 3\right\}$