

1.7 Worksheet

Solving Absolute Value Equations and Inequalities Worksheet

Name: _____

Date: _____

1. Solve each equation.

a. $|x - 6| = 8$

b. $|x + 2| = -8$

c. $|-9x| = 64$

d. $|-7x + 4| = 18$

e. $|4x + 4| = 28$

f. $5|n + 10| = 10$

g. $|1 - 6n| + 3 = 46$

h. $\frac{|3v - 2|}{5} = 4$

2. Solve each inequality and graph its solution on a number line.

a. $|n+9| \leq 1$

b. $|-7x| \geq 28$

c. $|8-6m| > 32$

d. $|-9+p|+5 < 24$

e. $|x-2| > 3$

f. $2|x-2| \leq 6$