

**Absolute Equations****Multiple Absolutes**

1.  $4|x - 1| - 3 = -5|x + 1| + 10$

2.  $9|x - 2| + 10 = 3|x - 9| + 1$

3.  $6|x + 3| - 7 = -6|x + 2| + 8$

4.  $4|x - 3| + 6 = 4|x - 4| + 3$

5.  $6|x + 4| - 4 = 4|x - 4| + 6$

6.  $2|a - 10| + 7 = 6|a + 3| - 5$

7.  $2|a - 10| - 10 = 3|a + 1| + 10$

8.  $3|x + 2| + 5 = 2|x - 5| + 4$

9.  $6|x - 1| - 7 = 7|x + 2| + 3$

10.  $|x - 7| - 8 = 1|x + 7| + 8$

**Answers****Absolute Equations****Multiple Absolutes**

$$1. x = -\frac{14}{9} \quad \text{or} \quad x = \frac{4}{3}$$

$$2. x = 0 \quad \text{or} \quad x = 3$$

$$3. x = -\frac{15}{4} \quad \text{or} \quad x = -\frac{5}{4}$$

$$4. x = \frac{25}{8}$$

$$5. x = -25 \quad \text{or} \quad x = \frac{1}{5}$$

$$6. a = -\frac{25}{2} \quad \text{or} \quad a = \frac{7}{4}$$

$$7. a = -3 \quad \text{or} \quad a = -\frac{3}{5}$$

$$8. x = -15 \quad \text{or} \quad x = \frac{3}{5}$$

$$9. x = -10 \quad \text{or} \quad x = -\frac{18}{13}$$

$$10. \text{No Solution for } x \in \mathbb{R}$$