Section 2.6

Absolute Value Equations and Inequalities

1. Solve each absolute value equation
(Similar to p.208 #39-59)

$$|x-7|=4$$

2. Solve each absolute value equation
(Similar to p.208 #39-59)

$$|5y+2|-6=-2$$

3. Solve each absolute value equation
(Similar to p.208 #39-59)

$$\left|\frac{3x-1}{4}\right|=5$$

4. Solve each absolute value equation
(Similar to p.208 #39-59)

$$|7x-1|=|3x+3|$$

5. Solve each absolute value equation
(Similar to p.208 #39-59)

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$$|5x+1|=-2$$

6. Solve each absolute value equation
(Similar to p.208 #39-59)

$$-4|x+3| = -16$$

7. Solve each absolute value equation
(Similar to p.208 #39-59)

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$$|x+7| = 0$$

8. Solve each absolute value inequality
(Similar to p.208 #61-73)

$$|9x-2| \le 10$$

9. Solve each absolute value inequality
(Similar to p.208 #61-73)

$$4|x-7|-3 < 9$$

10. Solve each absolute value inequality
(Similar to p.208 #75-85)

$$|x+7| \ge 3$$

11. Solve each absolute value inequality
(Similar to p.208 #75-85)

$$|-4x+3|-10 \ge 0$$

12. Solve each absolute value inequality (Odd Ball Cases)

$$|x+5| < -2$$

13. Solve each absolute value inequality (Odd Ball Cases)

$$-3|x+5| < -9$$

14. Solve each absolute value inequality (Odd Ball Cases)

$$|x+5| \leq 0$$

15. Solve each absolute value inequality (Odd Ball Cases)

$$|x+5| > -2$$

16. Solve each absolute value inequality (Odd Ball Cases)

$$3 < |x+5|$$

17. Solve each absolute value equation (Odd Ball Cases)

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$x > 2 \quad or \quad x > 5$

18. Solve each absolute value equation (Odd Ball Cases)

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$x > 2 \quad or \quad x < 6$

19. Solve each absolute value equation (Odd Ball Cases)

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$4 > x > 2$

20. Solve each absolute value equation (Odd Ball Cases)

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$3 > x > 5$