



NAME \_\_\_\_\_

**Module 5** Solving Linear Inequalities of One Variable

**Lesson 5** Solving Conjunction Inequalities

1.  $x > 4$  and  $x < 2$   $\emptyset$  \_\_\_\_\_



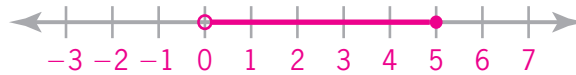
2.  $x < -2$  and  $x > -5$   $-5 < x < -2$  \_\_\_\_\_



3.  $x \geq 4$  and  $x > 7$   $x > 7$  \_\_\_\_\_



4.  $x \leq 5$  and  $x > 0$   $0 < x \leq 5$  \_\_\_\_\_



5.  $x \geq 2$  and  $x \leq 0$   $\emptyset$  \_\_\_\_\_



6.  $x \leq 0$  and  $x < -3$   $x < -3$  \_\_\_\_\_



7.  $x > 4$  and  $x \geq -5$   $x > 4$  \_\_\_\_\_



8.  $x \leq -5$  and  $x \geq 3$   $\emptyset$  \_\_\_\_\_



9.  $x \leq 0$  and  $x \geq 0$   $x = 0$  \_\_\_\_\_



10.  $x \geq 2$  and  $x < 1$   $\emptyset$  \_\_\_\_\_



11.  $x + 1 < 4$  and  $x - 4 > 5$   $\emptyset$  \_\_\_\_\_



12.  $2x \leq 8$  and  $-4x \leq -8$   $2 \leq x \leq 4$  \_\_\_\_\_



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13.  $x - 5 \geq 3$  and  $x + 2 \leq 5$   $\emptyset$  \_\_\_\_\_



14.  $-3x \geq 12$  and  $2x \leq 12$   $x \leq -4$  \_\_\_\_\_



15.  $5x - 4 \leq 6$  and  $2x - 2 \leq -4$   $x \leq -1$  \_\_\_\_\_



16.  $3x - 2 \leq 13$  and  $-4x \leq -16$   $4 \leq x \leq 5$  \_\_\_\_\_



17.  $\frac{1}{2}x - 2 > 2$  and  $-3x - 2 > 4$   $\emptyset$  \_\_\_\_\_



18.  $-4 \leq x + 6 \leq 0$   $-10 \leq x \leq -6$  \_\_\_\_\_



19.  $-2 \leq 2x + 4 < 8$   $-3 \leq x < 2$  \_\_\_\_\_



20.  $0 < -4x + 4 < 12$   $1 > x > -2$  or  $-2 < x < 1$  \_\_\_\_\_

