Warm-Up Review for Topic 1   Name: _____

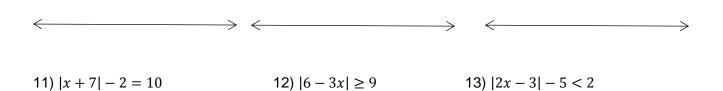For each problem, define your variable, write an equation, show how you solve, state the solution.

1. Find two consecutive integers whose sum is 203.

2. Find three consecutive even integers whose sum is 132.

3. Find two consecutive odd integers whose sum is –104.

4. Find three consecutive integers such that the sum of twice the smallest and 3 times the largest is 316.

Solve each equation or inequality. Graph the solution for each inequality.

5) $4-(x-3)=1$

6) $\dfrac{2x-1}{3}=5$

7) $-2(3x+5)-6=6(-x+2)-28$

8) k – 7 < 16

9). -2 < x + 2 < 3

10) 5 – x > 7 or x – 5 > 7

$\longleftarrow\!\!\!\!\!\xrightarrow{\hspace{3cm}}$ $\longleftarrow\!\!\!\!\!\xrightarrow{\hspace{3cm}}$ $\longleftarrow\!\!\!\!\!\xrightarrow{\hspace{3cm}}$

11) $|x+7|-2=10$

12) $|6-3x|\geq 9$

13) $|2x-3|-5<2$

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