Test Review: Unit 1 Reasoning with Equations and Inequalities Algebra 1 Kitt

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_

**Directions**: *Write down all five steps for solving general linear equations and inequalities.*

1.

2.

3.

4.

5.

**Directions**: *Solve the following equations. Show your work.*

1. $38+7k=8(k+4)$ 2. $3\left(1-3x\right)=2(-4x+7)$ 3. $-3\left(x-1\right)+8\left(x-3\right)=6x+7-5x$

**Directions**: *Solve the following inequalities. Graph your results on a number line. Show your work.*

4. $15-5k\geq 0$ 5. $3-\frac{x}{3}>-4$ 6. $-2x-14\leq 86$

**Directions**: *Solve the following literal equations. Show your work.*

*Solve for the variable r.*

 7. $tr-x=7$ 8. $I=prt$