Solving and Graphing Inequalities

**For each of the following inequalities, tell whether x = 5 could be a possible solution.**

1. $5x-2>25$ 2. $4-3x<5$ 3. $\frac{x-9}{2}\geq -2$

**For each of the following inequalities, solve for x and graph the answers on the number line.**

1. $5x>-20$ 2. $x-4\leq -2$ 3. $4x+3<-1$



4. $8-3x<-4$ 5. $-2x+7\geq 9$ 6. $\frac{x-7}{2}>-2$

 **For each of the following inequalities, tell whether the point (5, -3) could be a possible solution.**

1. $y>2x-4$ 2. $y<-\frac{2}{5}x-1$ 3. $y\geq -3x+4$

**Graph the following inequalities on the coordinate plane.**

1. $y>2x-4$ 2. $y<-\frac{2}{5}x-1$ 3. $y\geq -3x+4$