Math II Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 7 Day 4: Graphing inequalities Period\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Graph the system.**

1. $x>-1$ 2. $-x+y\leq -3$

 $x<3$ $y\geq x+4$



3. $y>-x-4$ 4. $3x-2y>-4$

 $y\geq \frac{1}{2}x -2$ $2x+4y<12$

 

5. $y<-\left(x-2\right)^{2}+1$ 6. $y\geq \left(x-1\right)^{2}$

 $y\geq -x+1$ $y<x-3$

 

7. $x^{2}+y^{2}\leq 25$ 8. $y\geq -1$

 $4y<3x$ $x>-2$

 $y\leq -\frac{1}{2}x+2$

 

Solve using any method.(Show work.)

9. $2x+3y=-3$ 10. $y=-7x-16$

 $2x+y=7$ $x+4y=-10$

11. $-4x-3y=-14$ 12. $6x-2y=30$

 $-8x+y=14$ $-10x-3y=7$

13. Karen makes $5 per hour babysitting and $12 per hour giving music lessons. One weekend, she worked a total of 18 hours and made $139. How many hours did she spend babysitting?