**Honors Algebra 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Solving Systems of Inequalities Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_**

**Solve each System of Inequalities by Graphing.**

**1.)** $x-2y<6$ **2.)** $x+2y\leq 10$

$-3x-2y\geq 10$$x>-3$

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**3.)** $x-y<-5$ **4.)** $2x+2y\leq -6$

$3x+y<-2$$3y\geq 3x+9$

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**5.)** $4x-3y<9$ **6.)** $6x+2y>-6$

$y<2$$-8x+6y<12$

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**7.)** $2x+4y<16$ **8.) Write an equation of a line that is**

$y\geq -3$ **perpendicular to** $y=\frac{2}{3}x-\frac{5}{12}$

$x>-1$ **and passes through the point (8, 3).**

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