**Chapter 5 Review Questions Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Graph the following inequalities
2. $-2x+y>3$ b) $3x-2y+4\leq 0$





$ c) y\leq x^{2}-4x-1$ d) $y>-2x^{2}-12x-13$

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1. Solve the following quadratic inequalities. (Draw a rough sketch)
2. $x^{2}+11x+30<0$ b) $-4x^{2}+x<-5$

 c) $3x^{2}>16x-5$ d) $4x^{2}-16\geq 0$

1. Create an inequality that has the 4. Create an inequality that has the
solution $x>3$ and$x<-4$. Show solution $-5\leq x\leq 2.$ Show
solution in general form. solution in general form.

 5. Solve the following systems graphically and algebraically.
 a) $y=-\left(x-2\right)^{2}+4$
 $y=-x+4$

 $b) $$y=2\left(x+1\right)^{2}-6$
 $y=6x-4$

 c) $y=x^{2}-4x-1$
 $3y=-6x+6$

 d) $2y-6x=-6$
 $y=-3\left(x-2\right)^{2}+3$