

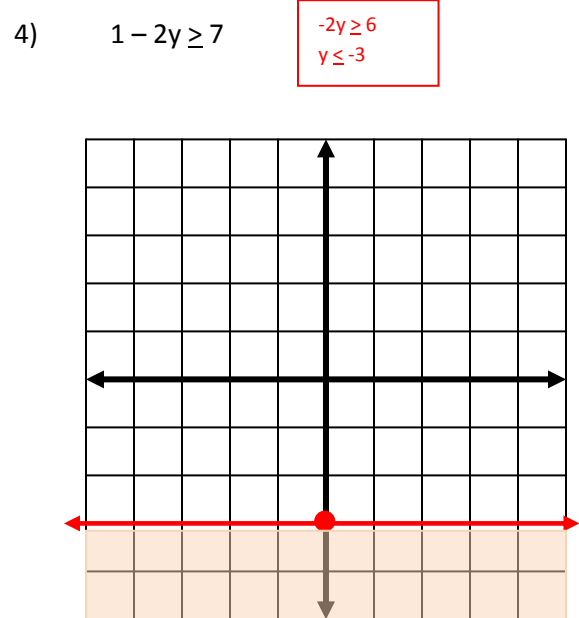
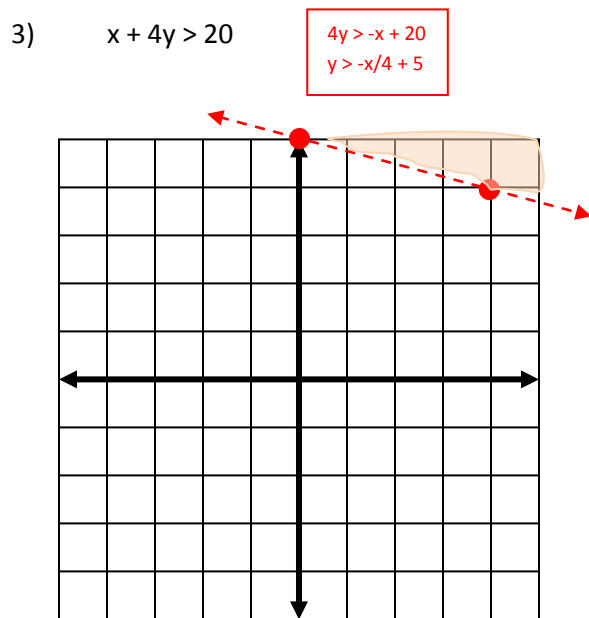
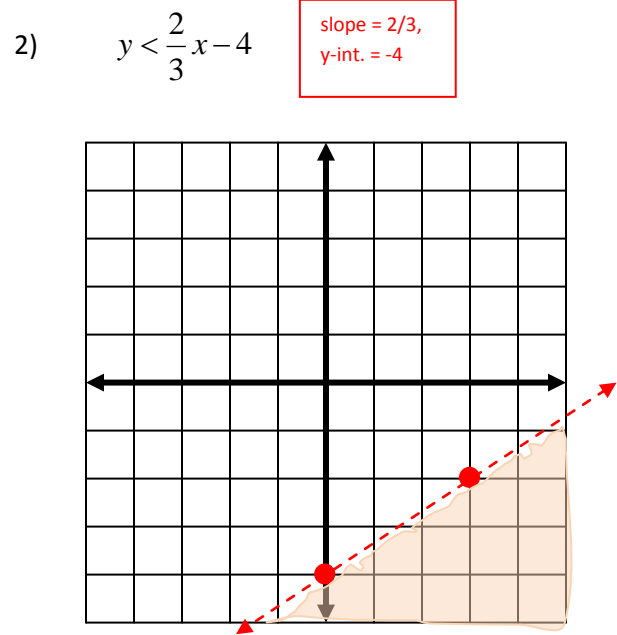
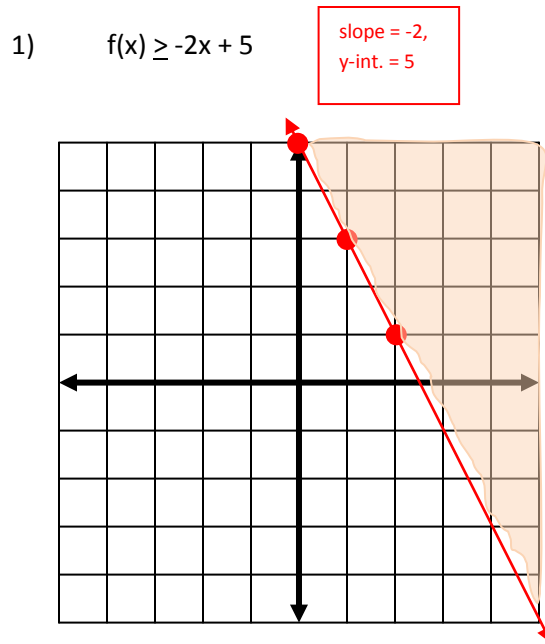
GRAPHING INEQUALITIES

Can you color inside the lines? Then you can graph inequalities!

DETAILS, DETAILS, DETAILS...

- 1) Make sure the "y" or "f(x)" is first in your answer, then...
 shade above the line for $>$ or \geq , shade below the line for $<$ or \leq
- 2) Solid lines for \geq or \leq (because of the equal to)
 dashed lines for $>$ or $<$

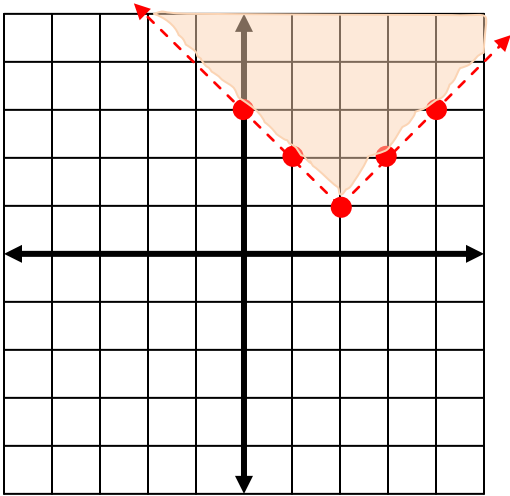
Graph the following inequalities.



Graph the absolute value inequalities. **V**ictory is yours!

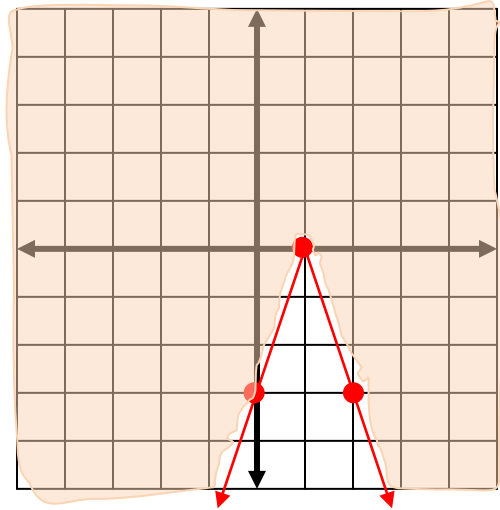
5) $y > |x - 2| + 1$

vertex = (2, 1)



6) $y \geq -3|x - 1|$

vertex = (1, 0)



What happens if there is no "above or below" to shade?

7) $\frac{3}{2}x < -6$

Solve for x first by mult. both sides by 2/3
 $x < -4$ No "y" means a vertical line @-4

