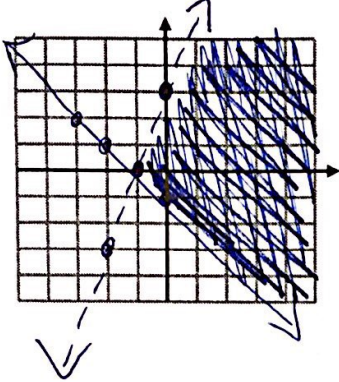


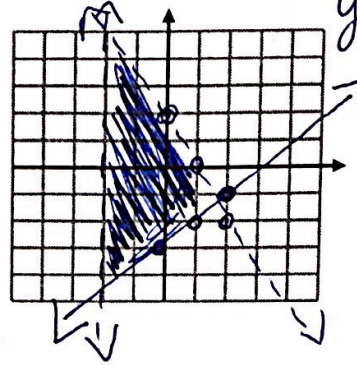
**LT #3: I can graph a system of linear inequalities**

Graph the system of linear inequalities

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



2.  $2x + y < 2$   $y < -2x + 2$   
 $x - y \leq 3$   $-y \leq -x + 3$   
 $x > -2$   $y \geq x - 3$



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**LT #5: I can solve a system of 3 linear equations with 3 variables.**

Solve the following 3x3 system. Make sure to show all work and write your answer as an ordered triple. (6 pts)

- (A) 3.  $x - 2y + 3z = 12$
- (B)  $2x - y - 2z = 5$
- (C)  $2x + 2y - z = 4$

$$4 - 2y + 3(2) = 12$$

$$4 - 2y + 6 = 12$$

$$10 - 2y = 12$$

$$-2y = 2 \quad y = -1$$

- (A)  $x - 2y + 3z = 12$
- (B)  $(2x - y - 2z) = (5) - 2$

- (A)  $x - 2y + 3z = 12$
- (C)  $2x + 2y - z = 4$

$(4, -1, 2)$

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- (B)  $-4x + 2y + 4z = -10$
- (A)  $x - 2y + 3z = 12$
- (AB)  $-3x + 7z = 2$

(AC)  $3x + 2z = 16$

(AB)

$$\begin{array}{r} -3x + 7z = 2 \\ 3x + 2z = 16 \\ \hline 9z = 18 \\ z = 2 \end{array}$$

$$\begin{array}{r} 3x + 2(2) = 16 \\ 3x + 4 = 16 \\ 3x = 12 \\ x = 4 \end{array}$$