

**SHOW ALL WORK**

Solve: 1.  $3|2x + 5| = 9x - 6$

Solution:  $x = 7$ 

2. Solve the inequality and graph on a number line.

$$5|y + 3| < 15$$

Solution:  $-6 < y < 0$ 

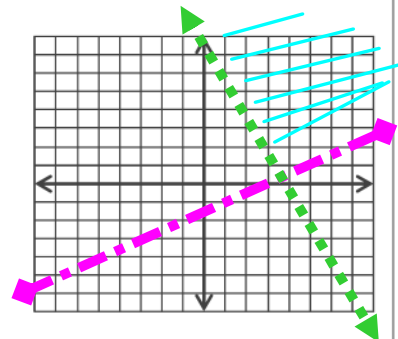
3. Solve:  $\frac{3}{5}x + \frac{2}{3} = \frac{2}{15}x - 2$

Solution:  $x = -\frac{40}{7}$ 

4. Graph the solution to :

$$x - 2y < 3$$

$$2x + y > 8$$



5. Solve the system using any method you would like. Show all work.

$$\begin{cases} x + y + z = -1 \\ 2x - y + 2z = -5 \\ -x + 2y - z = 4 \end{cases}$$

$$D=0 \quad D_x=0 \quad D_y=0 \quad D_z=0$$

Solution: infinitely many solutions