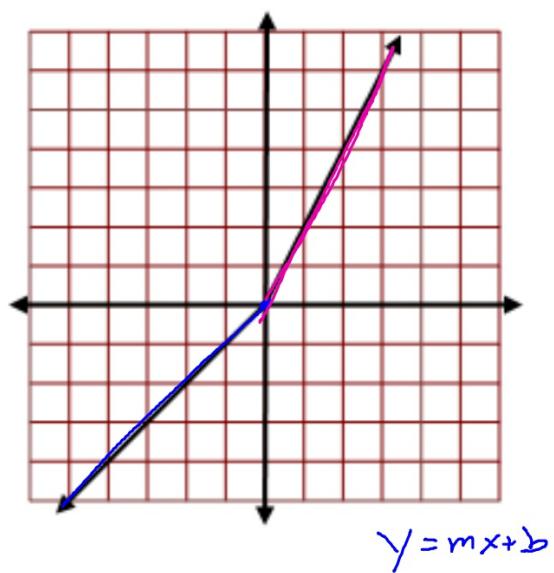


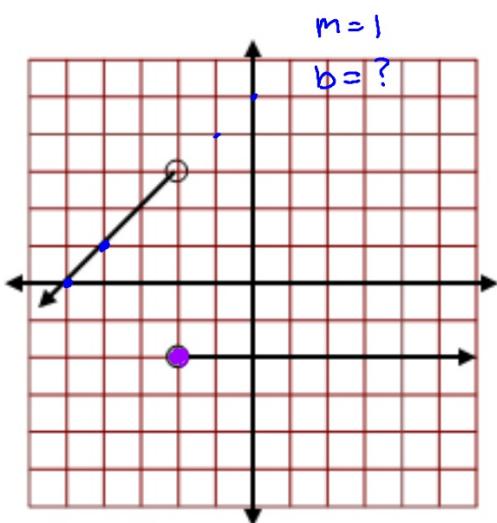
Write the equation of the piecewise function



$$\begin{array}{ll} x < 0 & x \geq 0 \\ y = x & y = 2x \end{array}$$

$$f(x) = \begin{cases} x & x < 0 \\ 2x & x \geq 0 \end{cases}$$

Write the equation of the piecewise function

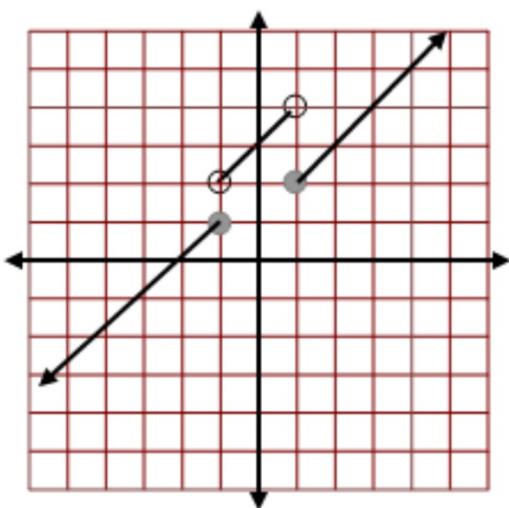


$$\begin{aligned}y &= mx+b \\y &= 1x+b \\0 &= 1(-5)+b \\0 &= -5+b \\b &= 5\end{aligned}$$

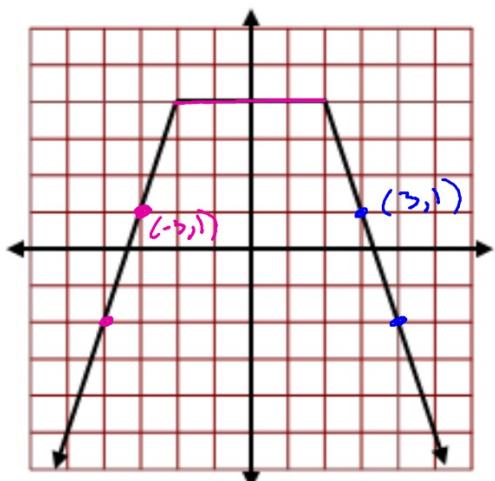
$$\begin{array}{ll}x < -2 & x \geq -2 \\y = x+5 & y = -2\end{array}$$

$$f(x) = \begin{cases} x+5 & x < -2 \\ -2 & x \geq -2 \end{cases}$$

Write the equation of the piecewise function



Write the equation of the piecewise function



$$x \leq -2 \\ m = 3$$

$$y = mx + b \\ y = 3x + b \\ l = 3(-5) + b \\ l = -15 + b \\ 10 = b \\ y = 3x + 10$$

$$-2 < x < 2 \\ y = 4$$

$$x \geq 2 \\ m = -3$$

$$y = mx + b \\ y = -3x + b \\ l = -3(3) + b \\ l = -9 + b \\ b = 10 \\ y = -3x + 10$$

$$f(x) = \begin{cases} 3x + 10 & x \leq -2 \\ 4 & -2 < x < 2 \\ -3x + 10 & x \geq 2 \end{cases}$$