MPM 1D6 Name: _____

Performance Task – Exit Card on Graphing a Line using Intercepts

Show all your calculations to graph the line $2x - 5y + 10 = 0$ using the X and Y intercepts.

for x-intercept, set y=0

$2x - 5y + 10 = 0$

$2x - 5(0) + 10 = 0$

$2x + 10 = 0$

$2x = -10$

$\frac{2x}{2} = \frac{-10}{2}$

$x = -5$

x-intercept is -5 or (-5,0)

for y-intercept, set x=0

$2x - 5y + 10 = 0$

$2(0) - 5y + 10 = 0$

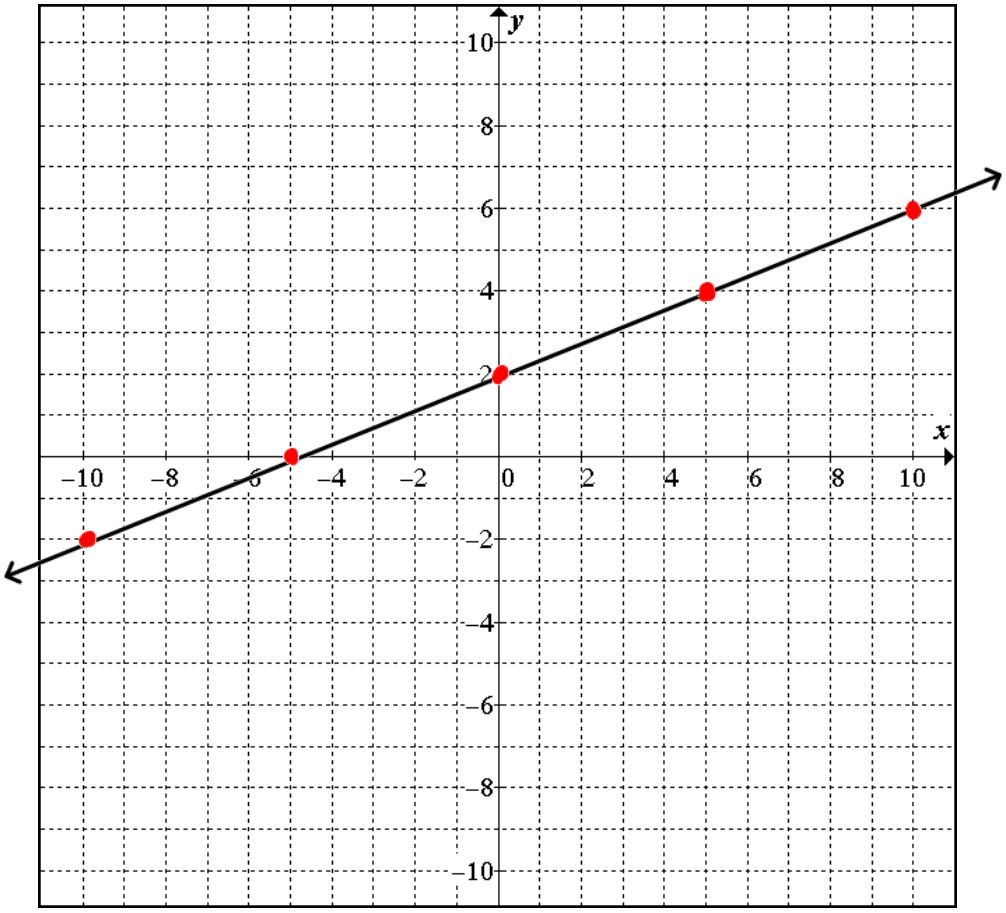
$-5y + 10 = 0$

$-5y = -10$

$\frac{-5y}{-5} = \frac{-10}{-5}$

$y = 2$

y-intercept is 2 or (0,2)



$2x - 5y + 10 = 0$

$-5y = -2x - 10$

$\frac{-5y}{-5} = \frac{-2x}{-5} - \frac{10}{-5}$

$y = \frac{2}{5}x + 2$