Circuit Training Name: _____

2.REV.1 – WRITING LINEAR FUNCTIONS

Begin by completing the problem in cell #1. Search for your answer in the remaining cells. Put #2 in the problem blank: #_____. Work that question and proceed in this manner until you complete the circuit.

Write an equation in slope-intercept form for the line described. WORK MUST BE SHOWN TO RECEIVE CREDIT.

Answer: $\boldsymbol{y = -\frac{8}{3}x + 4}$ **# 1** Passes through $(3, 2)$ & $(9, 12)$	**Answer:** $\boldsymbol{y = -3x - 6}$ #_____ Perpendicular to $2x + 5y = 10$ through $(4, 9)$
Answer: $\boldsymbol{y = \frac{5}{2}x - 1}$ #_____ Slope $= 3$; passes through $(-1, 5)$	**Answer:** $\boldsymbol{y = \frac{2}{3}x + 4}$ #_____ Slope $= -\frac{3}{4}$; passes through $(4, 2)$
Answer: $\boldsymbol{y = -4x + 1}$ #_____ Perpendicular to $y = -\frac{1}{3}x + 4$ through $(2, 5)$	**Answer:** $\boldsymbol{y = 2x - 13}$ #_____ Passes through $(-1, -4)$ & $(8, -8)$
Answer: $\boldsymbol{y = \frac{5}{3}x - 9}$ #_____ Perpendicular to $3x + 2y = -10$ through $(-9, -2)$	**Answer:** $\boldsymbol{y = \frac{5}{3}x - 3}$ #_____ Parallel to $4x - 3y = 21$ through $(7, 2)$

WORK MUST BE SHOWN TO RECEIVE CREDIT.

Answer: $y = \frac{4}{3}x - \frac{22}{3}$

#_____ Perpendicular to $x + 2y = 6$ through $(6, -1)$

Answer: $y = -\frac{2}{5}x - \frac{12}{5}$

#_____ Passes through $(-2, 0)$ & $(-7, 15)$

Answer: $y = 3x + 8$

#_____ Slope $= -4$; passes through $(-2, 9)$

Answer: $y = 3x + 4$

#_____ Slope $= \frac{1}{2}$; passes through $(-2, -5)$

Answer: $y = -\frac{4}{9}x - \frac{40}{9}$

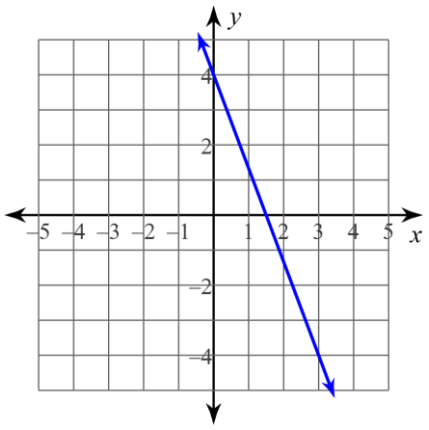
#_____ Parallel to $2x + 5y = 15$ through $(4, -4)$

Answer: $y = 3x - 1$

#_____ Parallel to $5x - 3y = -6$ through $(-3, -8)$

Answer: $y = \frac{1}{2}x - 4$

#_____



Answer: $y = -\frac{3}{4}x + 5$

#_____