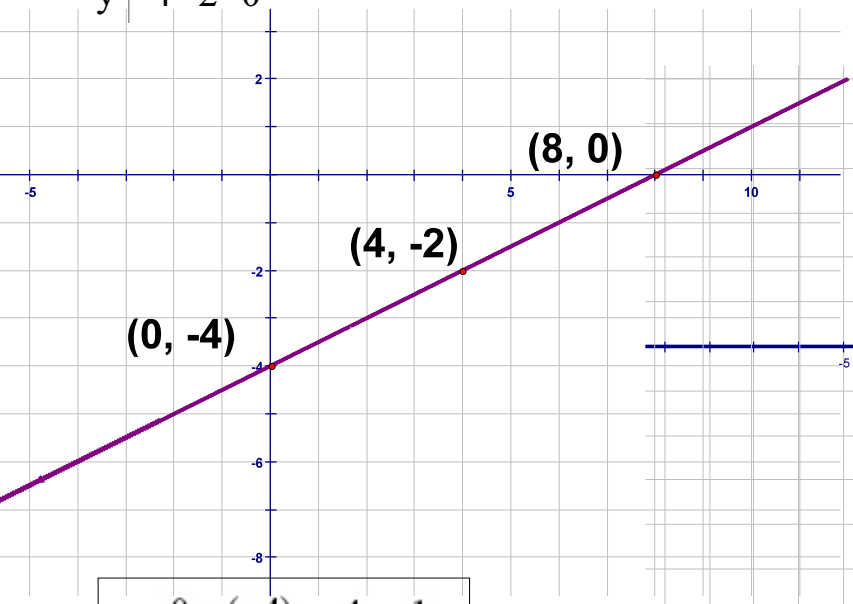
Linear Equations 2 (KEY)

Use a t-table to graph the following equations and give their slope.

1) $2x - 4y = 16$

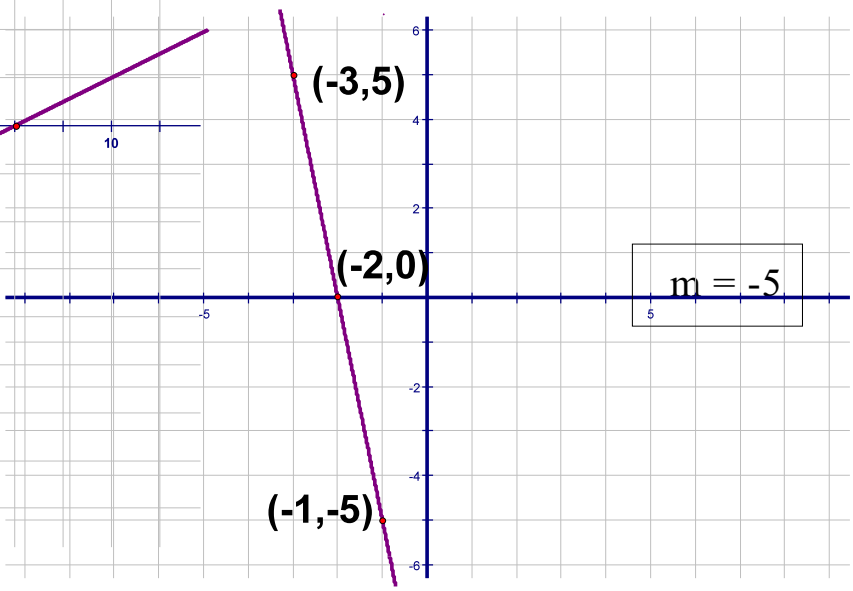
x	0	4	8
y	-4	-2	0



$$m = \frac{0-(-4)}{8-0} = \frac{4}{8} = \frac{1}{2}$$

2) $-5x - y = 10$

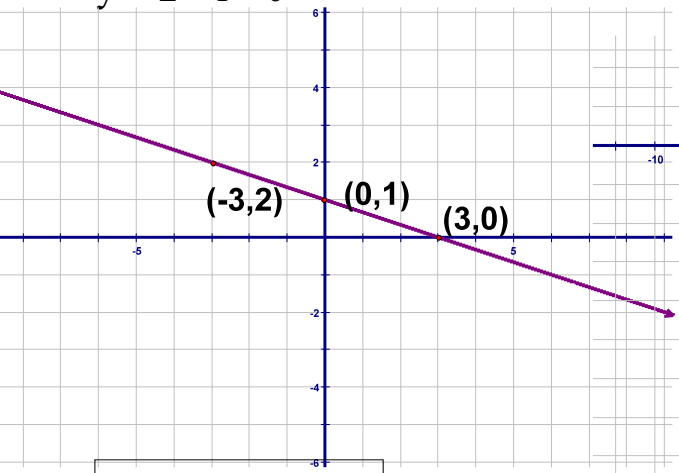
x	-3	-2	-1
y	5	0	-5



m = -5

3) $x + 3y = 3$

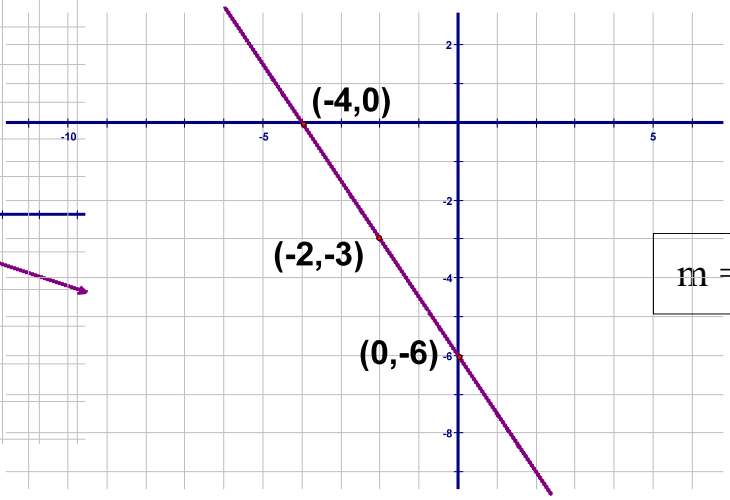
x	-3	0	3
y	2	1	0



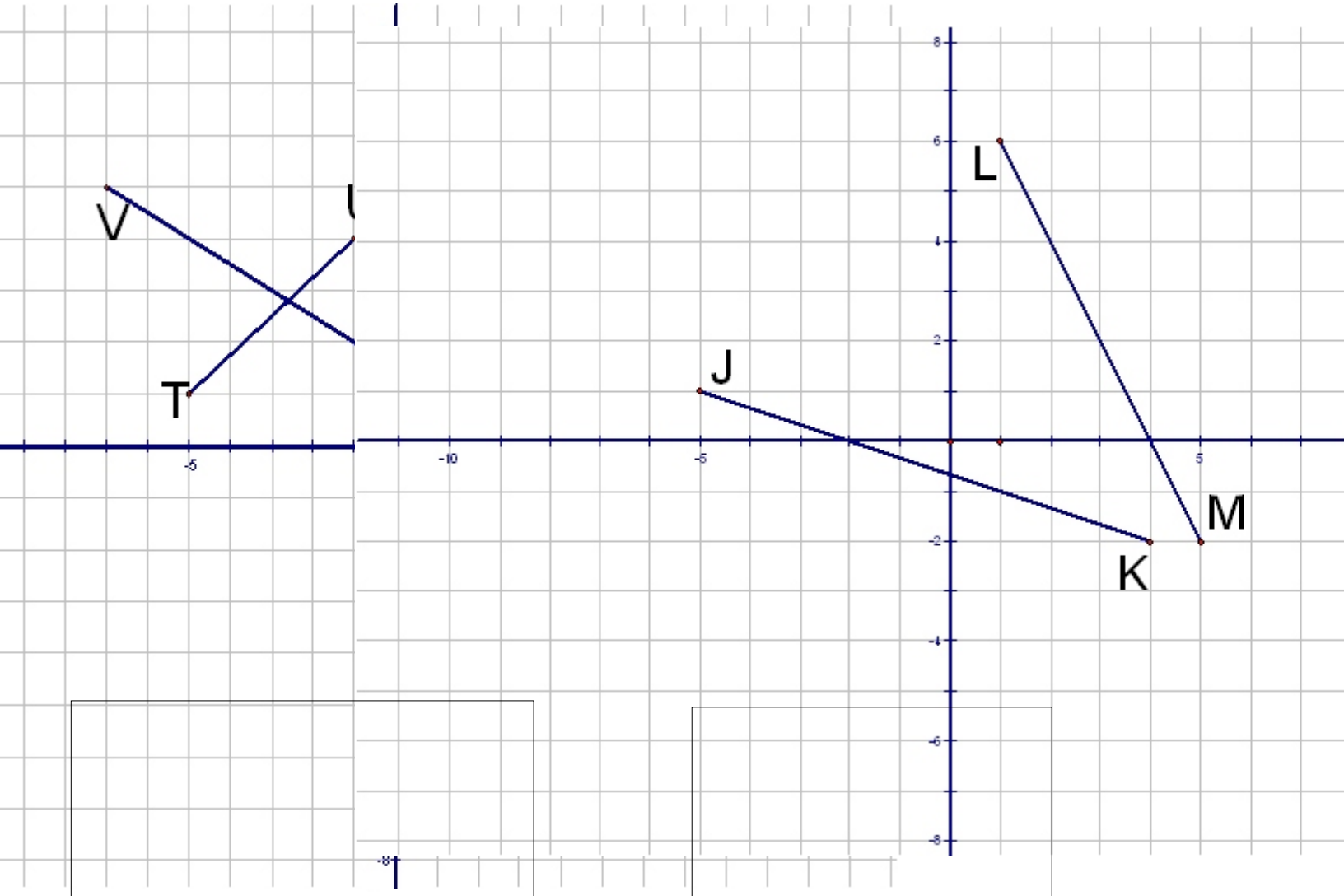
$$m = \frac{0-1}{3-0} = \frac{-1}{3}$$

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

x	-4	-2	0
y	0	-3	-6



m = -3/2



midpoint VW: $\left(\frac{5+(-7)}{2}, \frac{-1+5}{2}\right)$

Mdpt. = (-1, 2)

Slope VW: -6/12 =

m = -1/2

Slope JK: -3/9 = -1/3

Length LM: $4\sqrt{5}$

Mdpt. LM: (3, 2)

Slope LM: (-8/4) = -2

Length TU: = 5

Midpt. TU: = (-3, 2.5)

Slope TU: = 3/4