Intermediate Algebra Skill

Graphing Lines; Identifying Intercepts and Slope

A) Sketch the graph, identify the x and y intercepts and find the slope:

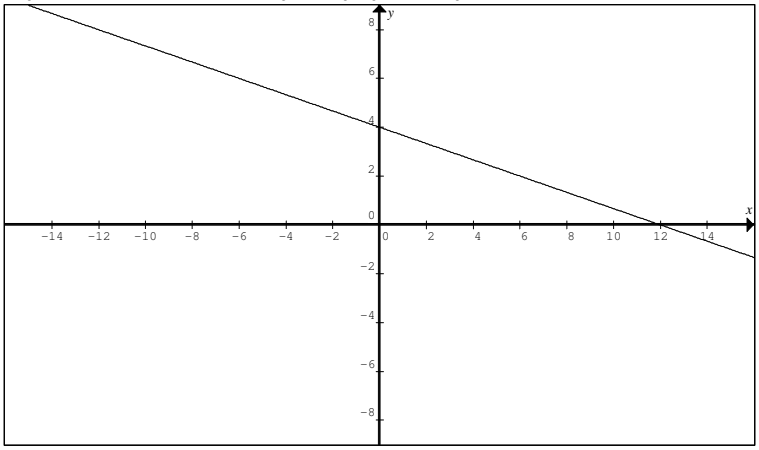
1) $x+3y=12$
2) $x+4y=8$
3) $x+5y=0$
4) $7x-2y=4$
5) $y=\frac{2}{3}x+1$
6) $y=4x-3$
7) $y=-9x+5$
8) $5y+25-3x=0$
9) $-1-\frac{1}{4}y=0$
10) $-2+3x=0$

B) Find the slope of the line containing these points:

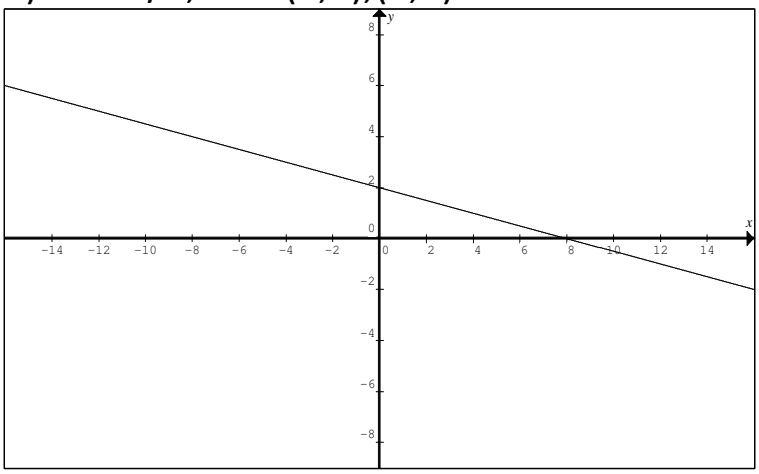
11) $(-17,0),(-17,17)$
12) $(-4,2),(-14,-4)$
13) $(-9,-15),(10,-20)$
14) $(-8,-3),(2,-4)$
15) $(-7,-8),(-9,-4)$

Answers to Graphing Lines; Identifying Intercepts and Slope

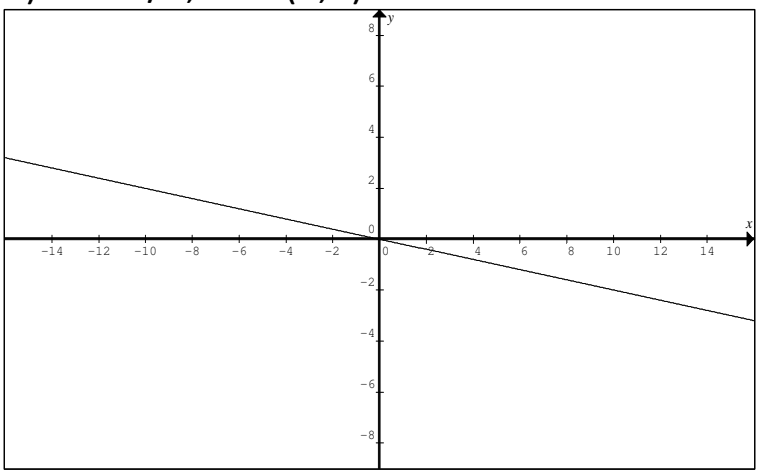
1) m= -1/3; int=(0,4),(12,0)



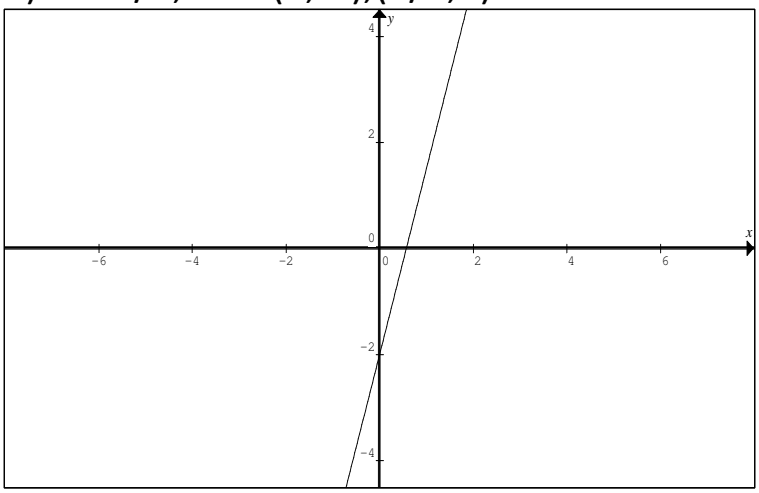
2) m= -1/4; int= (0,2),(8,0)



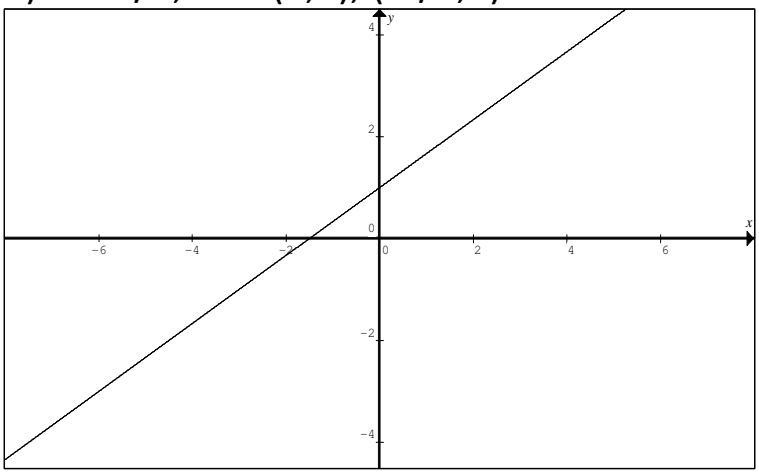
3) m= -1/5; int= (0,0)



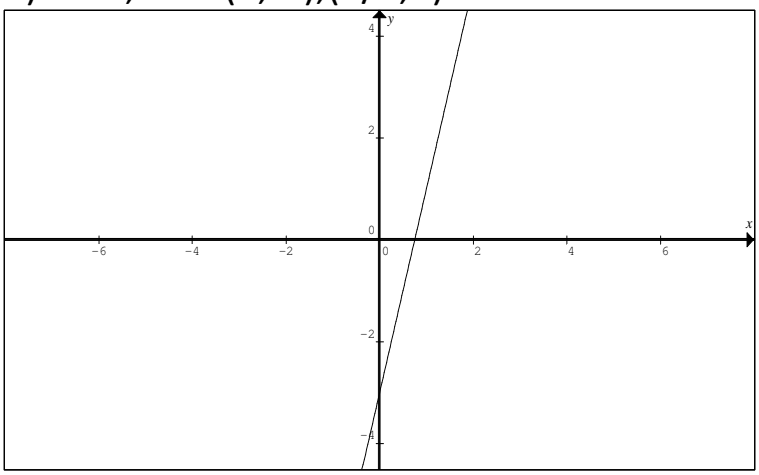
4) m= 7/2; int= (0,-2),(4/7,0)



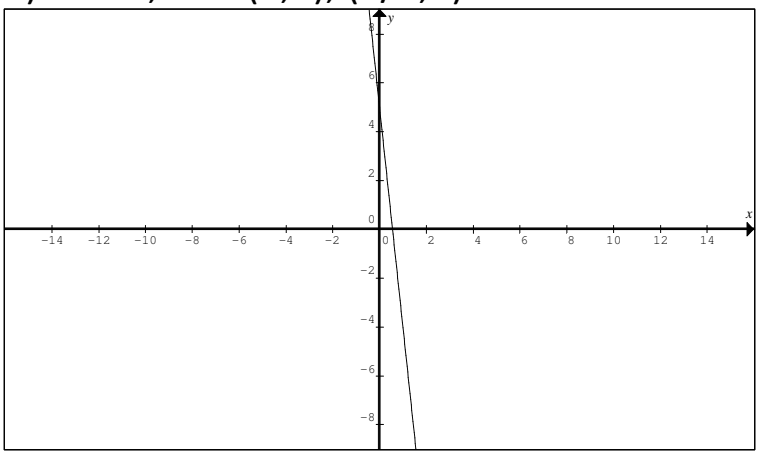
5) m= 2/3; int= (0,1), (-3/2,0)



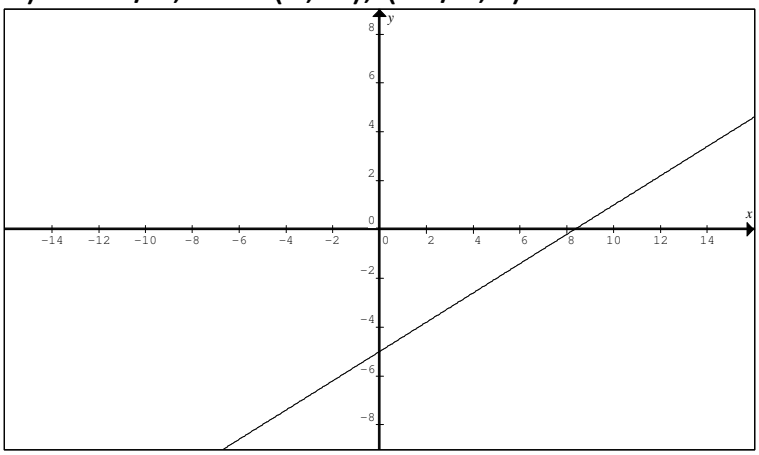
6) m=4; int= (0,-3),(3/4,0)



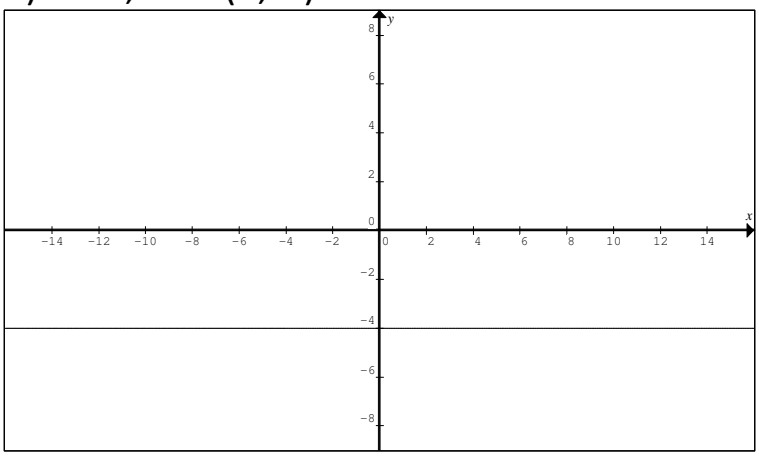
7) m= -9; int= (0,5), (5/9,0)



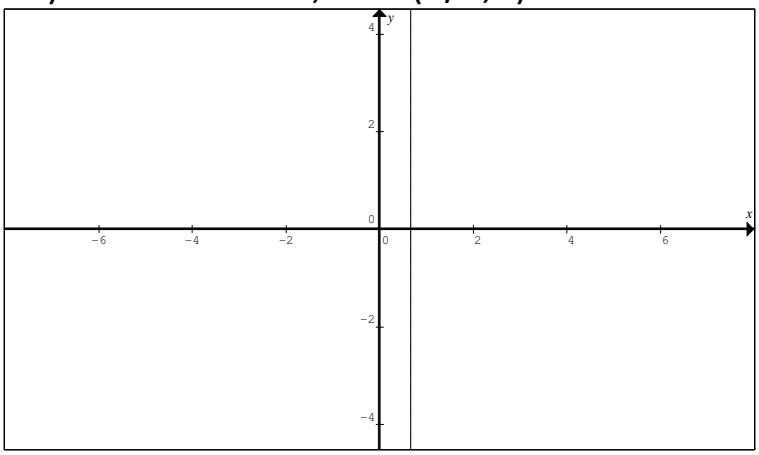
8) m= 3/5; int= (0,-5), (25/3,0)



9) m=0; int= (0,-4)



10) m= undefined; int= (2/3,0)



11) m=undefined

12) m=3/5

13) m= -5/19

14) m= -1/10

15) m= -2