

New

# Assign #9

NO calc:

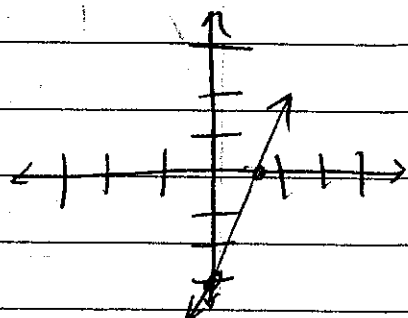
Book pg 129: 9, 11, 21-27 odd

9.  $5x - y = 3$        $y = 5x - 3$

x-int:  $(\frac{3}{5}, 0)$       x-int:  $(\frac{3}{5}, 0)$

y-int:  $(0, -3)$       y-int:  $(0, -3)$

Same line      Infinite solutions  
 $y = 5x - 3$       consistent, dependent

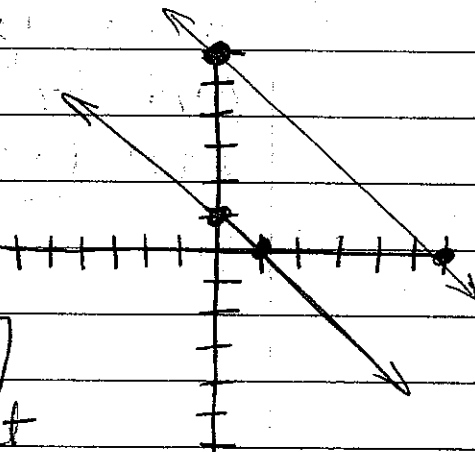


11.  $x + y = 6$        $3x + 3y = 3$

x-int:  $(6, 0)$       x-int:  $(1, 0)$

y-int:  $(0, 6)$       y-int:  $(0, 1)$

No solution, parallel lines  
Unconsistent

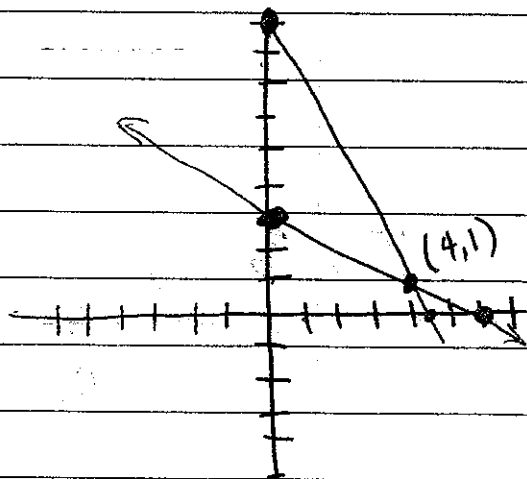


21.  $x + 2y = 6$        $2x + y = 9$

x-int:  $(6, 0)$       x-int:  $(\frac{9}{2}, 0)$

y-int:  $(0, 3)$       y-int:  $(0, 9)$

$(4, 1)$       consistent  
independent



23.  $2x + 4y = 8$

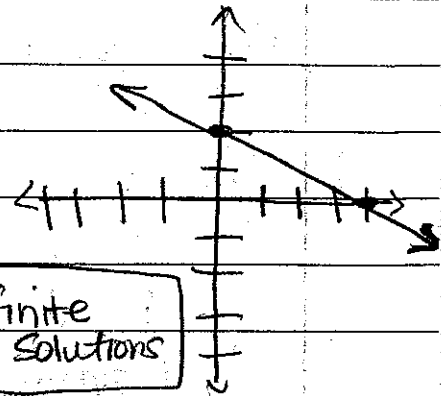
x-int:  $(4, 0)$

y-int:  $(0, 2)$

$x + 2y = 4$

x-int:  $(4, 0)$

y-int:  $(0, 2)$



Same line  $x + 2y = 4$  Infinite Solutions  
consistent, dependent

25.  $3x + 6 = 7y$

x-int:  $(-2, 0)$

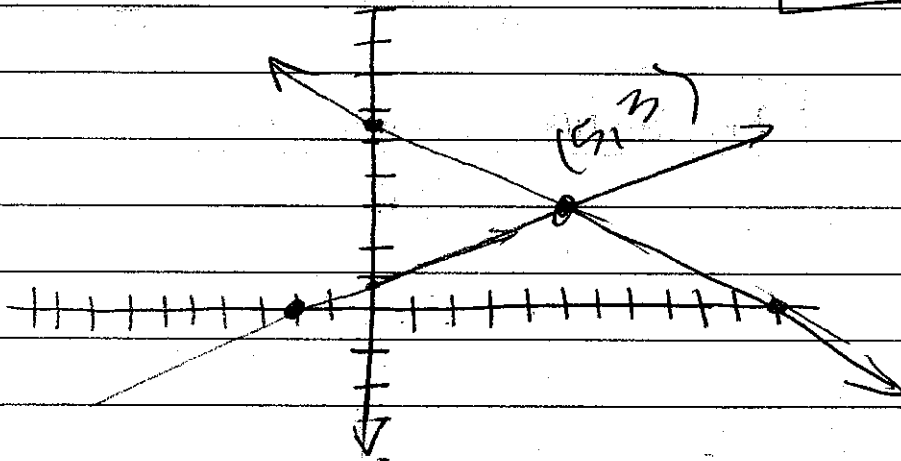
y-int:  $(0, \frac{6}{7})$

$x + 2y = 11$

x-int:  $(11, 0)$

y-int:  $(0, \frac{11}{2})$

$(5, 3)$



27.  $\frac{2}{3}x + y = -3$

x-int:  $(-\frac{9}{2}, 0)$

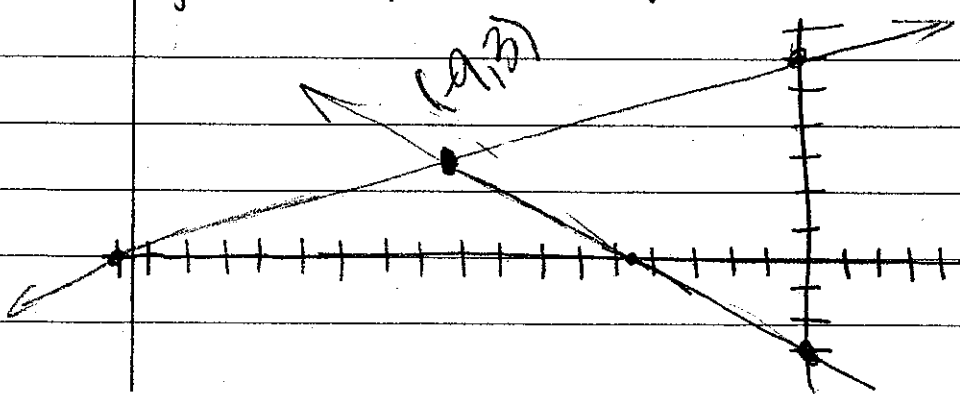
y-int:  $(0, -3)$

$y = -\frac{1}{3}x + 6$

x-int:  $(-18, 0)$

y-int:  $(0, 6)$

$(-9, 3)$



Assign #9 cont

Calc allowed

Book pg 131: 39, 41

39.  $3.6x + 4.8y = -7.2$   
 $-3.6x$                        $-3.6x$

$$\frac{4.8y}{4.8} = \frac{-3.6x - 7.2}{4.8}$$

$$y = \frac{(-3.6x - 7.2)}{4.8}$$

$$(2, -3)$$

$5.8x - 7.1y = 32.9$   
 $-5.8x$                        $-5.8x$

$$\frac{-7.1y}{-7.1} = \frac{-5.8x + 32.9}{-7.1}$$

$$y = \frac{-5.8x + 32.9}{-7.1}$$

41.  $3.6x - 2y = 4$   
 $-3.6x$                        $-3.6x$

$$\frac{-2y}{-2} = \frac{-3.6x + 4}{-2}$$

$$y = \frac{(-3.6x + 4)}{2}$$

$-2.7x + y = 3$   
 $+2.7x$                        $+2.7x$

$$y = 2.7x + 3$$

$$(-5.56, -12)$$

Book pg 125: 5, 7

5.  $y = 0.125x - 3.005$                        $y = -2.58$   
 $(3.40, -2.58)$

7.  $3.14x + 2.03y = 1.99$

$2.03y = -3.14x + 1.99$

$$y = \frac{(-3.14x + 1.99)}{2.03}$$

$$(-0.03, 1.03)$$

$9.32x - 3.77y = -4.21$

$-3.77y = -9.32x - 4.21$   
 $-3.77$                        $-3.77$

$$y = \frac{-9.32x - 4.21}{-3.77}$$

