

7.1T Graphing systems with Decimal Solutions

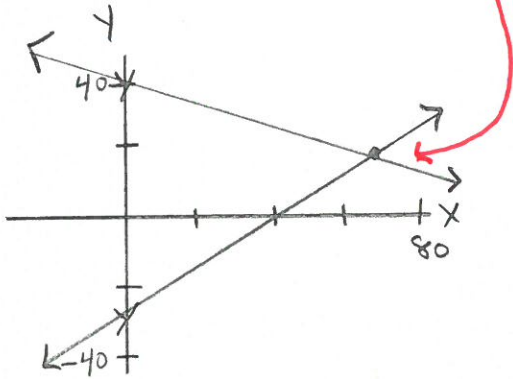
Solve each system by graphing. Clearly sketch a Graph. Label the POI rounded to 2 decimals. Check by show the last step rounded to 3 decimals.

1)  $y = \frac{2}{3}x - 32.16$

$y = -\frac{1}{3}x + 40.501$

**(72.66, 16.28)**

c: 16.28 = 16.28  
c: 16.28 = 16.281

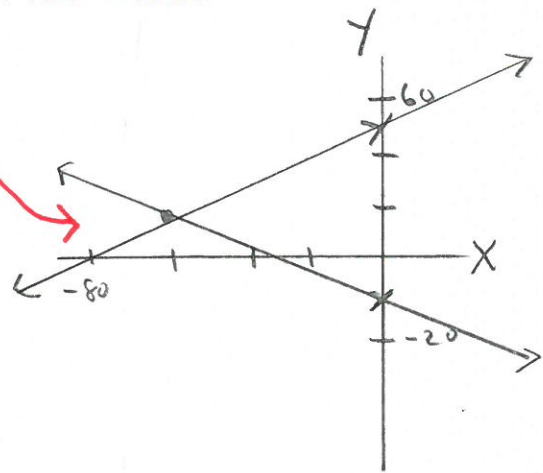


2)  $y = \frac{2}{3}x + \frac{96}{2}$

$y = -\frac{1}{3}x - \frac{85}{7}$

**(-60.14, 7.91)**

c: 7.91 = 7.907  
c: 7.91 = 7.904

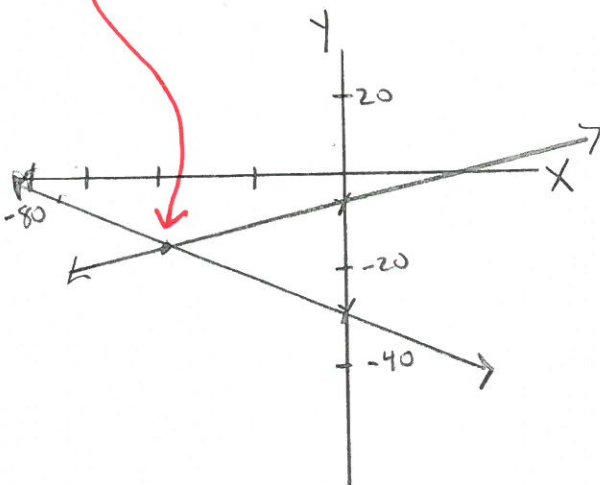


3)  $y = \frac{2}{3}x - \frac{5}{2}$

$y = -\frac{1}{3}x - \frac{70}{3}$

**(-20.83, -16.39)**

c: -16.39 = -16.387  
c: -16.39 = -16.39



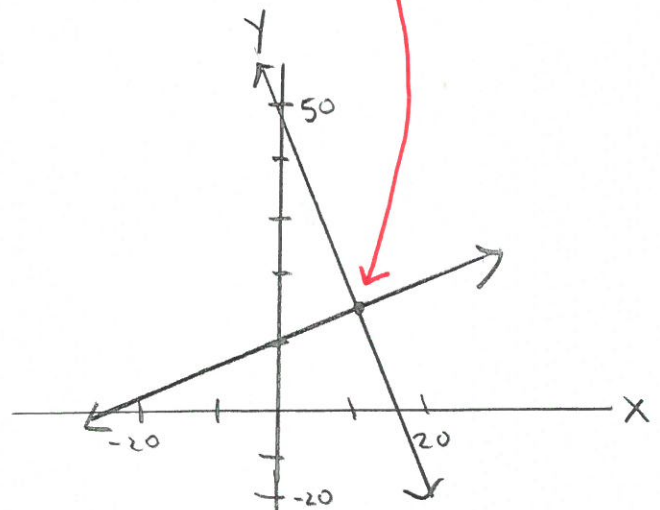
4)  $y = -2.5x + 50$

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

**(13.793, 15.517) -->**

**(13.79, 15.52)**

c: 15.52 = 15.525  
c: 15.52 = 15.516



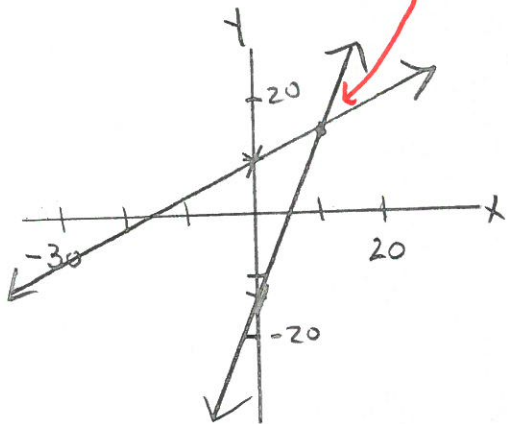
5)  $y = 2.5x - \frac{25}{2}$   $\rightarrow -12.5$

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

$(10.71, 14.29)$

c:  $14.29 = 14.275$

c:  $14.29 = 14.284$



6)  $y = -\frac{7}{9}x + \frac{17}{2}$   $\rightarrow 8.5$

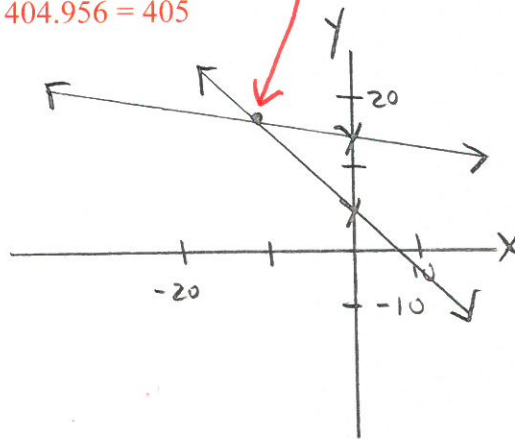
$27y + 3.16x = 405$

$y = -\frac{3.16}{27}x + 15$

$(-9.84, 16.15)$

c:  $16.15 = 16.153$

c:  $404.956 = 405$



7)  $y = \frac{1}{7}x + 15$

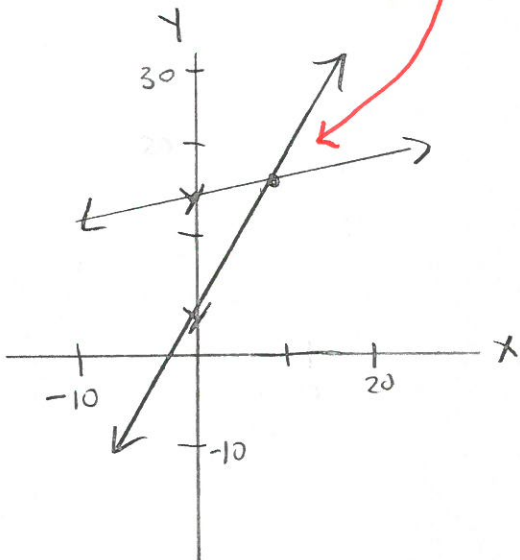
$-17x - 56 + 14y = 0$

$y = \frac{17}{14}x + 4$

$(10.27, 16.47)$

c:  $16.47 = 16.47$

c:  $-0.01 = 0$



8)  $y = \frac{25}{21}x - 8$

$-17 = -y \rightarrow y = 17$

$(21, 17)$

c:  $17 = 17 \checkmark$

c:  $-17 = -17 \checkmark$

