September 16, 2019

1)

$$\frac{2}{3}\left(\frac{1}{2}x-6\right)=\frac{5}{6}\left(\frac{1}{4}x-1\right)$$

$$\frac{1}{3}x-4=\frac{5}{24}x-\frac{5}{6}$$

$$-\frac{5}{24}x \qquad -\frac{5}{24}x$$

$$\frac{1}{8}x = \frac{19}{6}$$

$$x=25.3\overline{3}$$

3) $4x + 3y = 12$

x-int ($y = 0$)

$4x + 3(0) = 12$

$4x = 12$

$\boxed{x = 3}$

2) $\frac{3}{4}\left(\frac{5}{8}-x\right)=21$

$\frac{15}{32}-\frac{3}{4}x=21$ $\quad -\frac{3}{4}x=\frac{657}{32}$

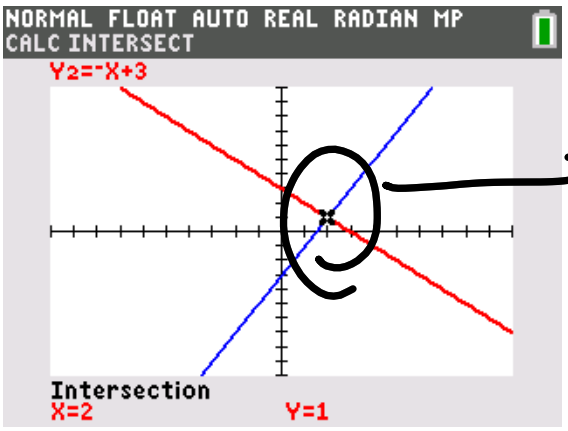
$x=-27.375$

7)

$2x-y=3 \rightarrow -y=-2x+3$

$y=2x-3$

$x+y=3 \rightarrow y=-x+3$



$\rightarrow (2,1)$

5)

x	-2	0	1	3	4
y	-6	-2	0	4	6

x-int

y=0

6) $-2x+3=7$

$-3\ \ -3$

$-2x=4 \rightarrow x=-2$

$3x+1=5+y$

$3(-2)+1=5+y$

$-6+1=5+y$

$-5=5+y \rightarrow y=-10$