

3R #2c

$$\begin{bmatrix} 2 & 1 & 2 & 0 \\ 6 & -4 & -5 & -2 \\ 4 & 1 & -3 & 2 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 1 & 2 & 0 \\ 0 & -7 & -11 & -2 \\ 0 & -1 & -7 & 2 \end{bmatrix}$$

$-3R_1$ -6 -3 -6 0 $-7R_3$ 0 7 49 -14
 $-2R_1$ -4 -2 -4 0

$$\rightarrow \begin{bmatrix} 2 & 1 & 2 & 0 \\ 0 & 7 & 11 & 2 \\ 0 & 0 & 38 & -16 \end{bmatrix} \rightarrow \begin{cases} 2x + \frac{18}{19} + 2\left(\frac{-8}{19}\right) = 0 \\ 2x = -\frac{2}{19} \Rightarrow \boxed{x = \frac{-1}{19}} \\ 38z = -16 \\ \boxed{z = \frac{-8}{19}} \end{cases}$$
$$\rightarrow 7y + 11\left(\frac{-8}{19}\right) = 2$$

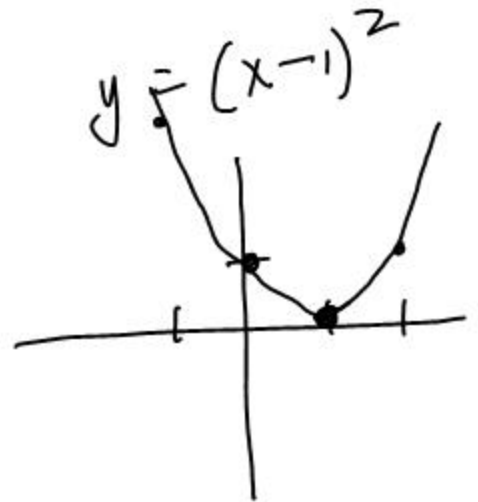
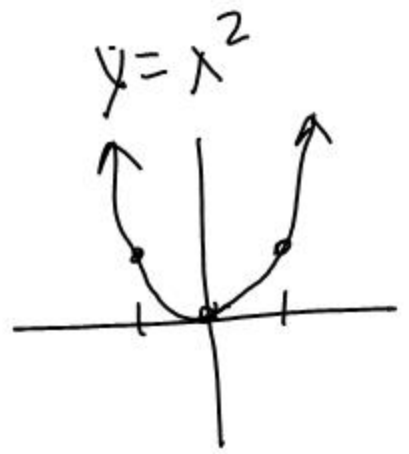
$$7y - \frac{88}{19} = \frac{38}{19} + \frac{88}{19} = \frac{126}{19}$$

$$\boxed{y = \frac{18}{19}}$$

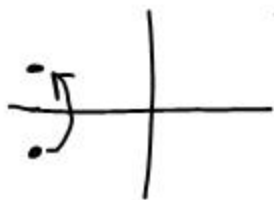
Be sure you
can do this
Cramer's Rule

flip over x-axis
 double
 left
 down

point	$y = -2f(x+1) - 3$
$(-5, -2)$	$(-6, 1)$
$(-4, 0)$	$(-5, -3)$
$(-3, 2)$	$(-4, -7)$
$(-1, -1)$,



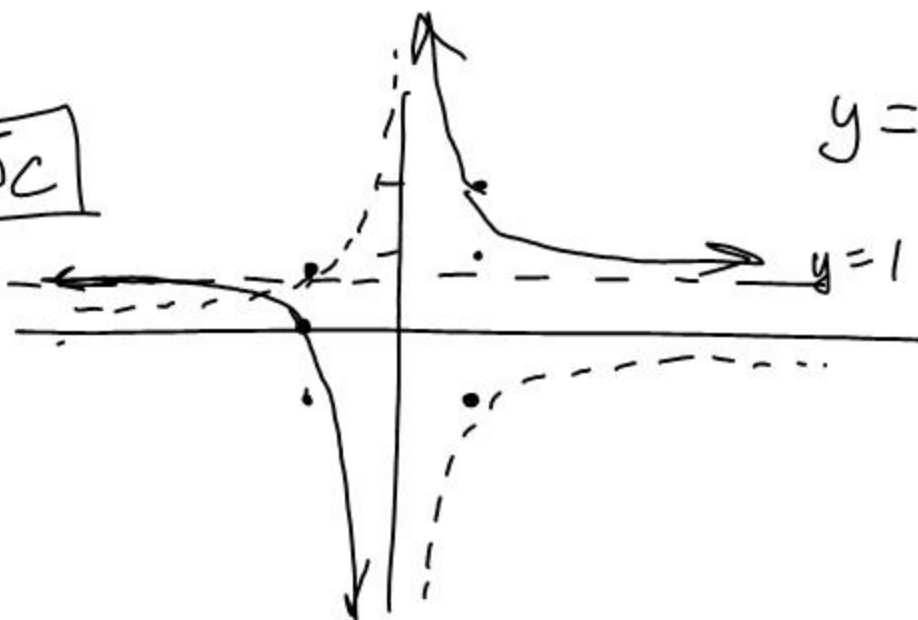
$$\begin{aligned}
 (-5, -2) &\rightarrow (-6, -2) \Rightarrow (-6, 2) \\
 &\rightarrow (6, 4) \\
 &\rightarrow (6, 1)
 \end{aligned}$$



up
 flips over x-axis

$$y = 1 - |f(x)|$$

#5C



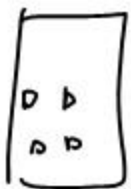
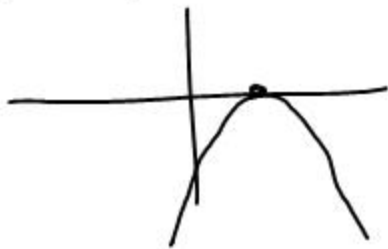
$\begin{pmatrix} -1 \\ -2 \end{pmatrix}$ is a vector
x-component
y-component



$\boxed{3R}$ #3, 5



#1, 2, 3, 4, 5, 8, 9



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