

① $(0, 1)$ $(3, 67)$ $(-2, 37)$

$$\begin{bmatrix} 0 & 0 & 1 \\ 9 & 3 & 1 \\ 4 & -2 & 1 \end{bmatrix} \begin{bmatrix} a \\ b \\ c \end{bmatrix} = \begin{bmatrix} 1 \\ 67 \\ 37 \end{bmatrix}$$

x^2 x 1 's y

$$\begin{bmatrix} 0 & 0 & 1 & 1 \\ 9 & 3 & 1 & 67 \\ 4 & -2 & 1 & 37 \end{bmatrix} \quad \begin{array}{l} 3 \times 4 \\ \text{rref} \end{array}$$

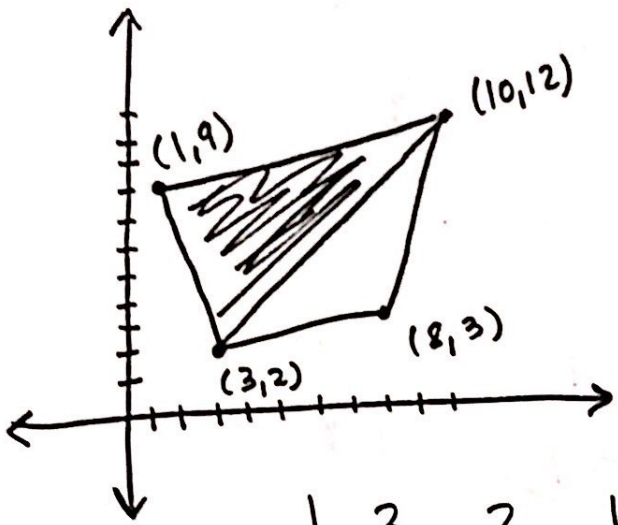
$$y = 8x^2 - 2x + 1$$

①

$$A = \pm \frac{1}{2} \begin{vmatrix} 1 & 1 & 1 \\ 4 & 3 & 1 \\ 4 & -1 & 1 \end{vmatrix} = -\frac{1}{2}(-12) = \boxed{6}$$

x y 1's

⑤



$$A = \pm \frac{1}{2} \begin{vmatrix} 3 & 2 & 1 \\ 1 & 9 & 1 \\ 10 & 12 & 1 \end{vmatrix} = -\frac{1}{2}(-69) = 34.5$$

$$A = \pm \frac{1}{2} \begin{vmatrix} 3 & 2 & 1 \\ 8 & 3 & 1 \\ 10 & 12 & 1 \end{vmatrix} = \frac{1}{2}(43) = 21.5$$

$$A = 34.5 + 21.5 = \boxed{56}$$