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Q-3

$$ax + by^2 + c$$

Known Point & Pixel value

- $(x_1, y_1) \rightarrow P_1$
- $(x_2, y_2) \rightarrow P_2$
- $(x_3, y_3) = P_3$

$$\begin{bmatrix} x_1 & y_1^2 & 1 \\ x_2 & y_2^2 & 1 \\ x_3 & y_3^2 & 1 \end{bmatrix} \begin{bmatrix} a \\ b \\ c \end{bmatrix} = \begin{bmatrix} P_1 \\ P_2 \\ P_3 \end{bmatrix}$$

A $\quad$ X $\quad$ B

$$AX = B$$

$$A^{-1}AX = A^{-1}B.$$

$$\boxed{X = A^{-1}B}$$

Q-2 Don't know, please provide approach/solution.

Q-1 (a)

(0,0) 1 $\quad$ ~~(0,1)~~ $\quad$ (1,0) 2

(0,1) 4 $\quad$ (1,1) 5

(0,0) 1	(1,0) 1	(2,0) 2	(3,0) 2
(0,1) 4	(1,1) 4	(2,1) 5	(3,1) 5

$\leftarrow \left\lfloor \left(\frac{x}{2}, y\right) \right\rfloor$

floor.