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1) Vertex $(2, 3)$

$$y - 3 = a(x - 2)^2 \rightarrow \text{ther pt } (1, 5)$$

$$5 - 3 = a(1 - 2)^2 \Rightarrow a = 2$$

$$y - 3 = 2(x - 2)^2$$

2) $x = ay^2 + by + c \quad (-1, 0)$

$$-1 = 0y^2 + 0b + c \Rightarrow c = -1$$

$$\begin{aligned} (-1, 1) \Rightarrow 1 &= a - b - 1 \\ (3, 1) \quad \underline{3 = a + b - 1} \end{aligned} \quad \left. \right\}$$

$$4 = 2a - 2 \Rightarrow a = 3 \Rightarrow b = 1$$

$$\boxed{x = 3y^2 + y - 1}$$