

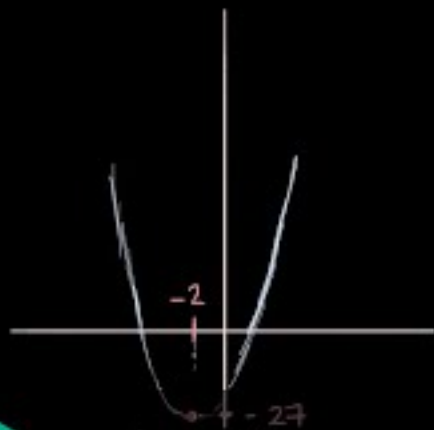
$$y = 3x^2 + 12x - 15 \quad y = 3(x-1)(x+5) \quad y = 3(x+2)^2 - 27$$

Vertex form

$$y = \boxed{3(x+2)^2} - 27 \quad \begin{array}{l} x+2=0 \\ x=-2 \end{array}$$

$$y = -27$$

$$y = -2(\underbrace{x+5}_{\text{yellow dot}})^2 + 10$$



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