#59 $y = 2x^2 + 4x - 5$

MIN VALUE OCCURS AT VERTEX

$$x = -\frac{B}{2A} = \frac{-4}{2(2)} = -1$$

$$y = 2(-1)^2 + 4(-1) - 5 = -7$$

OR

USE CALCULUS

$$y' = 4x + 4$$

WHEN IS $y' = 0$?

$$0 = 4x + 4$$

$$-1 = x$$