$$f(x) = 2x^2 + 4x + 5$$

$$\uparrow \qquad \uparrow \qquad \uparrow$$

$$a \qquad b \qquad c$$

a = 2 b = 4 c = 5

\*\*Since 4 is positive, we take the opposite of 4, which is negative 4.

$$\frac{-b}{2a} \qquad \frac{-4}{2 \cdot 2} = \frac{-4}{4} = -1$$

The x coordinate of the vertex is -1.