

$$R(x) = -x^2 + 8x, \quad C(x) = 2x + 5$$

\uparrow

marginal fixed costs

$$x = \frac{-8}{2(-1)} = 4$$

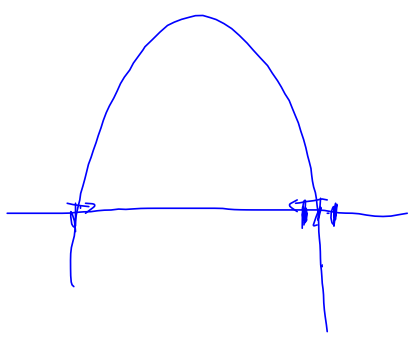
$$R(4) = -4^2 + 8(4) = \textcircled{*}$$

$$P(x) = R(x) - C(x)$$

$$\text{If } ax^2 + bx + c = 0,$$

$$\text{then } x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

~ = ~
 ~ = 0
 ↓
 Quad fn/ly



$x = \# \#$
 ↑
 $x = 1234.17\dots$

Marginal cost
for 7th unit

$$C(7) - C(6) = 19 - 17 = 2$$

$$\begin{array}{c} \text{---} = \text{---} \\ \downarrow \\ x = \end{array}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$ax^2 + bx + c = 0$$

$$\begin{array}{l} x = \square \\ = \square \\ = \end{array}$$