

3.

Solution

To find the q-intercept, we set f equal to 0, so :

$$f(q) = q^2 - 6q + 8 = (-4 + q)(-2 + q) = 0$$

$$-2 + q = 0 \text{ or } -4 + q = 0$$

$$q = 2 \text{ or } q = 4$$

So, the q-intercepts are at the points $(2, 0)$ and $(4, 0)$