

3.

Solution

To find the p-intercept, we set u equal to 0, so :

$$u(p) = p^2 - 8p + 15 = (-5 + p)(-3 + p) = 0$$

$$-3 + p = 0 \text{ or } -5 + p = 0$$

$$p = 3 \text{ or } p = 5$$

So, the p-intercepts are at the points $(3, 0)$ and $(5, 0)$