

6.

Solution

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

$$p(r) = r^2 - 8r + 12 = (-6 + r)(-2 + r) = 0$$

$$-2 + r = 0 \text{ or } -6 + r = 0$$

$$r = 2 \text{ or } r = 6$$

So, the r -intercepts are at the points $(2, 0)$ and $(6, 0)$