

1.

Solution

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

$$p(u) = u^2 - 9u + 18 = (-6 + u)(-3 + u) = 0$$

$$-6 + u = 0 \text{ or } -3 + u = 0$$

$$u = 6 \text{ or } u = 3$$

So, the u -intercepts are at the points $(6, 0)$ and $(3, 0)$