

1.

## Solution

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

$$p(r) = r^2 + r - 6 = (-2 + r)(3 + r) = 0$$

$$3 + r = 0 \text{ or } -2 + r = 0$$

$$r = -3 \text{ or } r = 2$$

So, the  $r$ -intercepts are at the points  $(-3, 0)$  and  $(2, 0)$