

5.

## Solution

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

$$d(r) = r^2 - 3r + 2 = (-2 + r)(-1 + r) = 0$$

$$-1 + r = 0 \text{ or } -2 + r = 0$$

$$r = 1 \text{ or } r = 2$$

So, the  $r$ -intercepts are at the points  $(1, 0)$  and  $(2, 0)$