

3.

## Solution

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

$$r(j) = j^2 - 4 = (-2 + j)(2 + j) = 0$$

$$2 + j = 0 \text{ or } -2 + j = 0$$

$$j = -2 \text{ or } j = 2$$

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