

1.

Solution

To find the z -intercept, we set g equal to 0, so :

$$g(z) = z^2 - 5z + 6 = (-3 + z)(-2 + z) = 0$$

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

$$z = 3 \text{ or } z = 2$$

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