Solution

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

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

-2 + z = 0 or 3 + z = 0

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