Solution

v = 5 or v = 3

-5 + v = 0 or -3 + v = 0

 $z(v) = v^2 - 8v + 15 = (-5 + v)(-3 + v) = 0$

So, the v-intercepts are at the points (5,0) and (3,0)

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