-4 + v = 0 or 2 + v = 0

v = 4 or v = -2

 $q(v) = v^2 - 2v - 8 = (-4 + v)(2 + v) = 0$

So, the v-intercepts are at the points (4,0) and (-2,0)

To find the v-intercept, we set $\mathfrak q$ equal to 0, so :

Solution