5.

Solution

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

$e(r) = r^2 - 10r + 24 = (-6 + r)(-4 + r) = 0$

$-4 + r = 0$ or $-6 + r = 0$

$r = 4$ or $r = 6$

So, the r-intercepts are at the points $(4,0)$ and $(6,0)$