4.

Solution

To find the s-intercept, we set k equal to 0, so :

$k(s) = s^2 - 2s - 8 = (-4 + s)(2 + s) = 0$

$-4 + s = 0$ or $2 + s = 0$

$s = 4$ or $s = -2$

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