## Exercise 6

For the following exercises, find the x- or t-intercepts of the polynomial functions.

$$C(t) = 2(t-4)(t+1)(t-6)$$

## Solution

To find the *t*-intercepts, set C(t) = 0 and solve the equation for *t*.

$$2(t-4)(t+1)(t-6) = 0$$
  
t-4=0 or t+1=0 or t-6=0  
t=4 or t=-1 or t=6

Therefore, the *t*-intercepts are (-1, 0) and (4, 0) and (6, 0).

