## Exercise 7

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

$$C(t) = 3(t+2)(t-3)(t+5)$$

## Solution

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

$$3(t+2)(t-3)(t+5) = 0$$
  
t+2=0 or t-3=0 or t+5=0  
t=-2 or t=3 or t=-5

Therefore, the *t*-intercepts are (-5, 0) and (-2, 0) and (3, 0).

