Exercise 13

For the following exercises, find the x- and y-intercepts of each equation

$$g(x) = 2x + 4$$

Solution

To find the y-intercept, set $x = 0$.

$$g(0) = 2(0) + 4 = 4$$

Therefore, the y-intercept is $(0, 4)$. To find the x-intercept(s), set $y = 0$.

$$0 = 2x + 4$$

Solve for x.

$$2x = -4$$

$$x = -2$$

Therefore, the x-intercept is $(-2, 0)$.