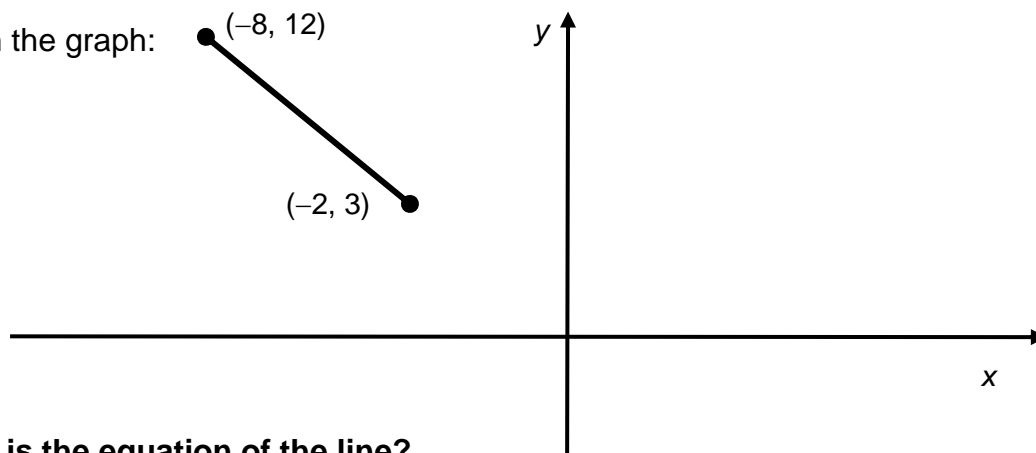# SLOPE-INTERCEPT FORM OF A LINE (FUNCTIONAL FORM)

1. The linear function f passes through points A (0, 6) and B (6, -3).

   What is the rule of this function?

2. Given the graph:
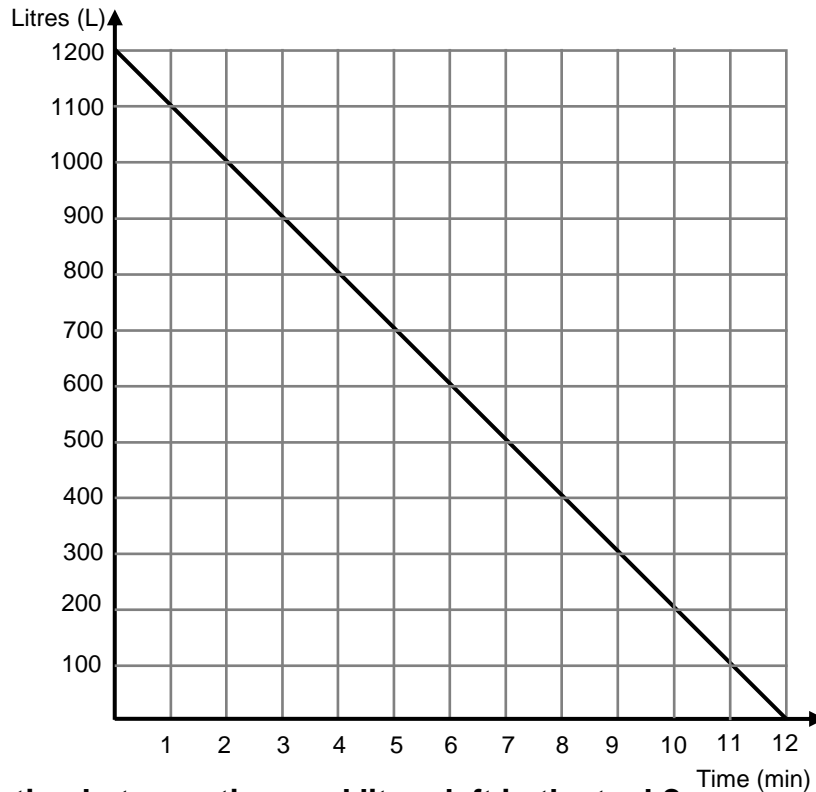
   $(-8, 12)$

   $(-2, 3)$

   What is the equation of the line?

3. A linear function passes through the points (5, 0) and (-10, 3).

   What is the rule of the function?

4. Cynthia is emptying a large aquarium tank.

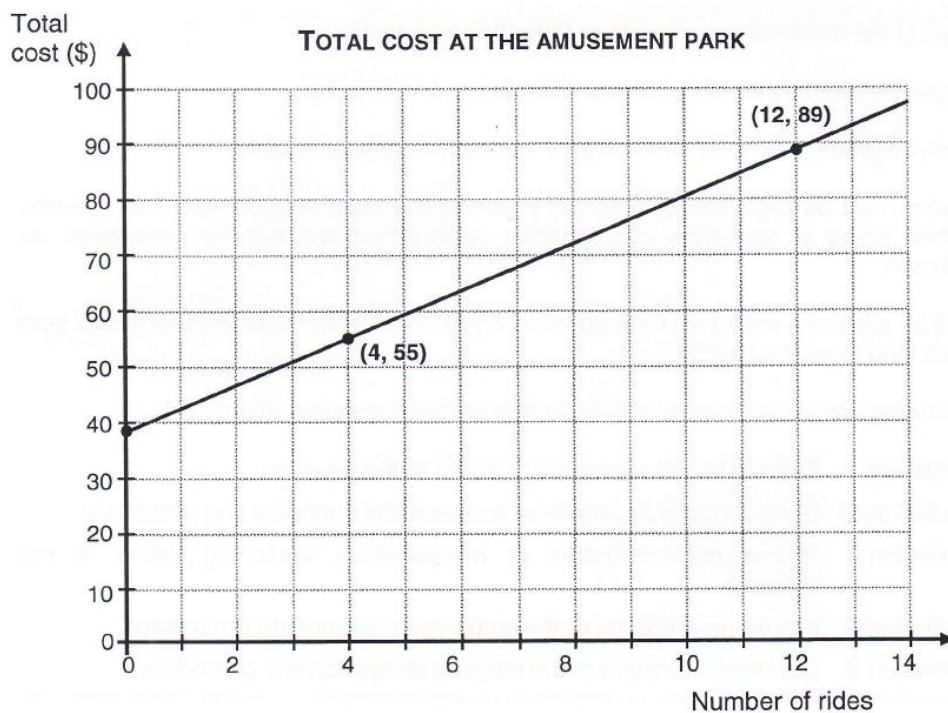   **What is the rule showing the relation between time and litres left in the tank?**

5. A new amusement park offers two different pricing options:

OPTION A:

The entrance fee is $26, plus an additional cost per ride. For 10 rides, the total cost is $83.50.

OPTION B:

The relationship between the number of rides and the total cost is shown in the graph:

Total cost ($)

TOTAL COST AT THE AMUSEMENT PARK

(12, 89)

(4, 55)

Number of rides

a) **What is the cost per ride for Option A?**

b) **What is the entrance fee for Option B?**