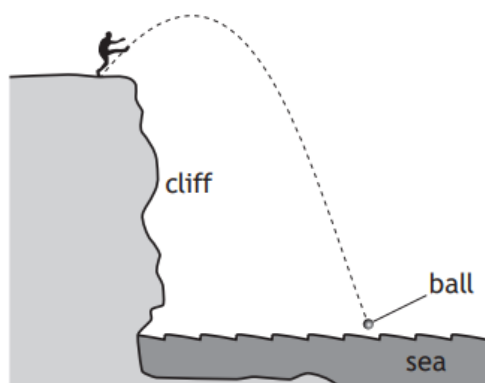


National 5 Maths
SQA 2019 Paper 1
Question 15

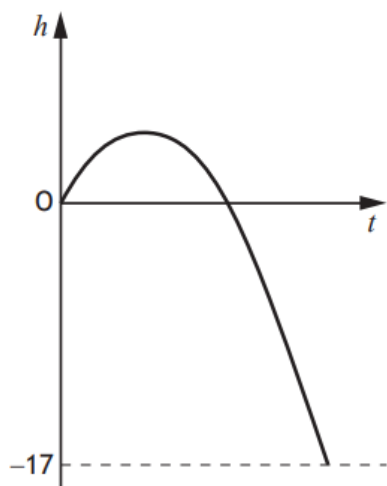
A ball is kicked from a clifftop.



The height, h metres, of the ball relative to the clifftop after t seconds is given by $h = 12t - 5t^2$.

- (a) Calculate the height of the ball above the clifftop after 2 seconds. 1

The graph below represents the height, h metres, of the ball relative to the clifftop after t seconds.



The sea is 17 metres below the clifftop.

- (b) After how many seconds will the ball hit the sea? 4

Answers:

- (a) 4 metres
(b) 3.4 seconds