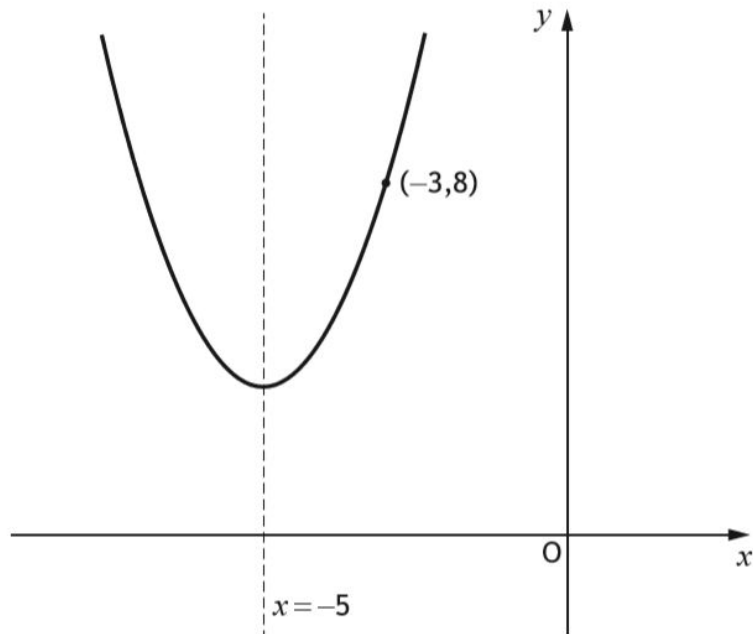


Qualification: SQA National 5 Mathematics 2017

Paper: 1 (Non-calculator)

Question: 14

14. The graph below shows a parabola with equation of the form $y = (x + a)^2 + b$.



The equation of the axis of symmetry of the parabola is $x = -5$.

(a) State the value of a .

1

The point $(-3, 8)$ lies on the parabola.

(b) Calculate the value of b .

2