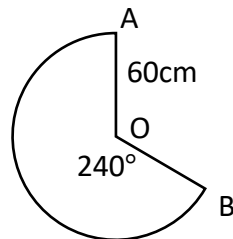


Round all answers to an appropriate degree of accuracy unless specifically stated

- Find the equation of the line joining A(-3,1) and B(3,5)
- Work out the length of arc AB and area of sector AOB below. Leave your answer in terms of π .



- Remove the brackets and simplify

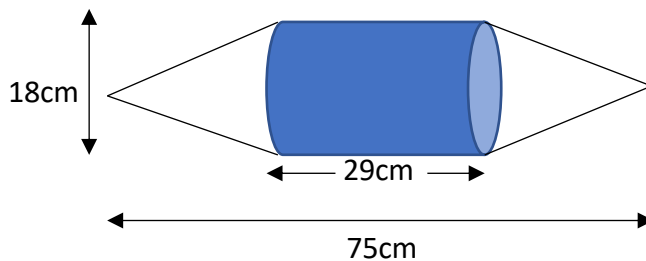
$$(x + 4)(2x^2 - 3x - 8)$$

- Work out the mean and standard deviation of the following data:

11 18 15 15 19 12

- The shape below consists of a cylinder and two identical cones

Find the volume of the shape. Give your answer correct to 3 significant figures.



- Write without brackets and simplify

$$(4x^2y^4)^{\frac{1}{2}}$$