

22nd November

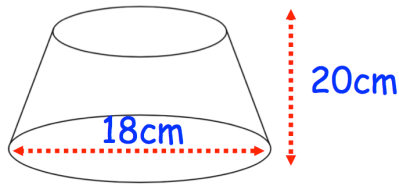
Corbettmaths

The events A and B are mutually exclusive.

$$P(A) = 0.7$$

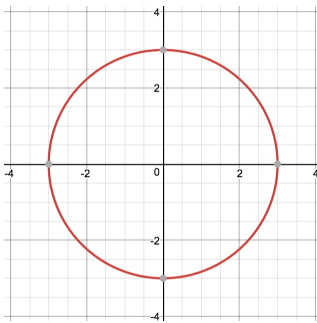
$$P(B) = 0.2$$

Find $P(A \cap B)$

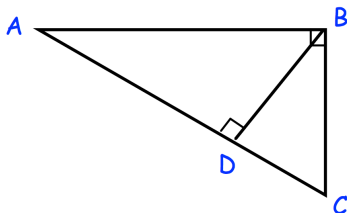


Shown is a frustum of a cone that had a perpendicular height of 40cm

Calculate the volume of the frustum



Write down the equation of the circle shown in the form:
 $x^2 + y^2 + ax + by + c = 0$



ABC and ABD are right angled triangles.
 ADC is a straight line.

Prove ABC and BCD are similar triangles.

The line l is a tangent to the circle $x^2 + y^2 = 90$ at the point P.
 P is the point (3, 9)
 The line l crosses the x-axis at the point Q.

Work out the area of triangle OPQ.