

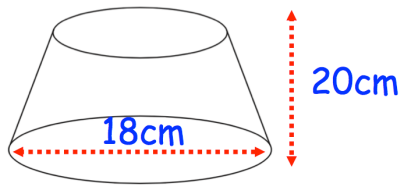


The events A and B are mutually exclusive.

$$P(A) = 0.7$$

$$P(B) = 0.2$$

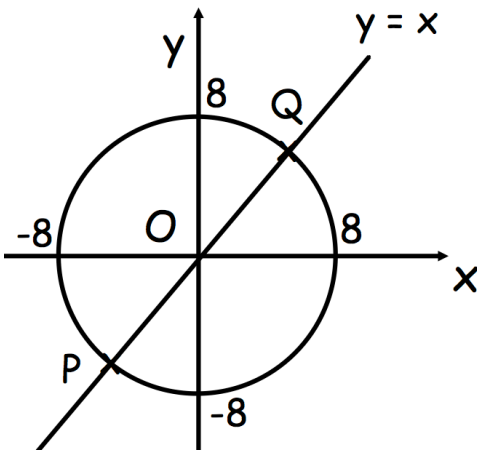
Find $P(A \cap B)$



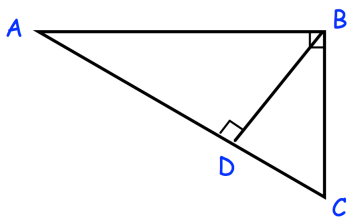
Shown is a frustum of a cone that had a perpendicular height of 40cm

Calculate the volume of the frustum

A straight line $y = x$ intersects a circle at the points P and Q.



Find the coordinates of points P and Q.



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

Prove ABC and BCD are similar triangles.