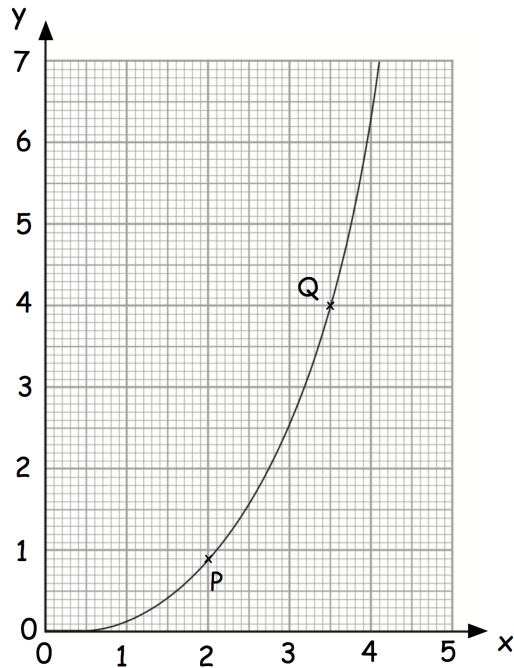


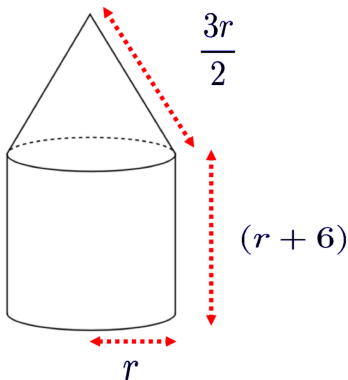
Find the area of the triangle in terms of  $x$ .



Work out the average rate of change of  $y$  with respect to  $x$  between points P and Q.

Work out the instantaneous rate of change of  $y$  with respect to  $x$  at point Q.

A cone and cylinder are joined to make a solid



Show the total surface area of the

solid is  $\frac{3\pi r}{2}(3r + 8)$