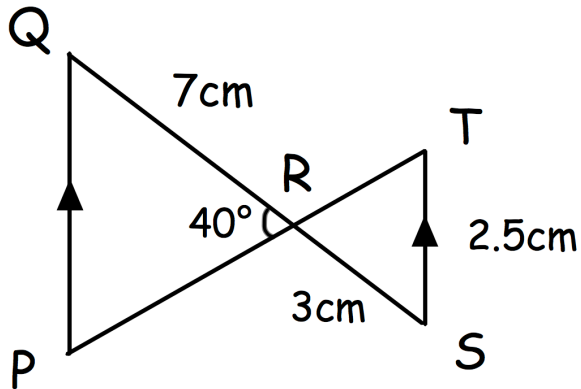


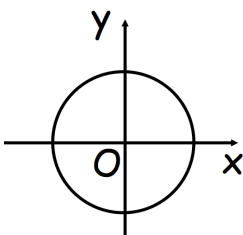
Work out the size of x



Find the area of triangle PQR.

PQ and ST are parallel lines.
 The straight lines QS and PT meet at R.
 QR = 7cm RS = 3cm ST = 2.5cm
 Angle PRQ = 40°

Shown below the circle with equation $x^2 + y^2 = 225$



Work out the equation of the line OQ.

The line l is a tangent to the circle at the point Q.

The gradient of the line l is $-\frac{4}{3}$

Find the two possible coordinates of the point Q.