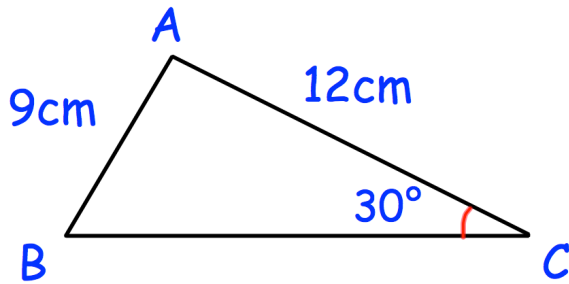


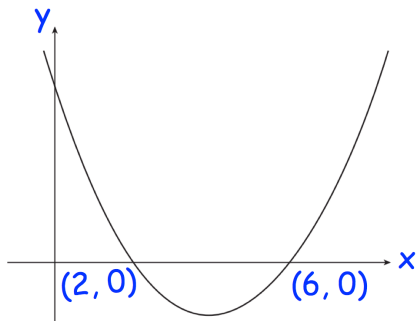


A circle has equation $x^2 + y^2 = 25$

Find the area of the circle



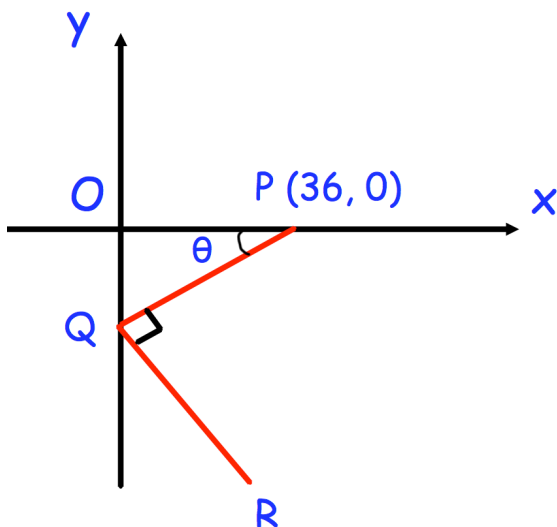
Find possible sizes of angle BAC



Shown is the curve with equation $y = x^2 + ax + b$

Find a and b

*Non-calculator



Angle PQR = 90°

$$\cos \theta = \frac{12}{13}$$

Work out the equation of the line QR