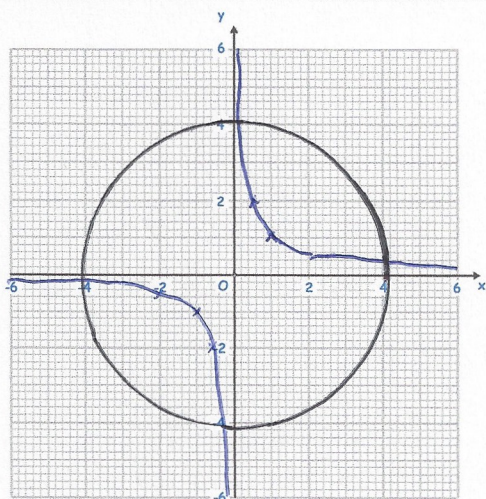


20th March



Corbettmaths

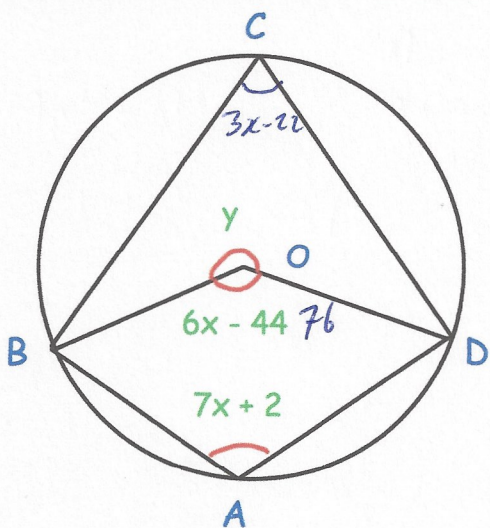


Draw the circle with equation $x^2 + y^2 = 16$

$$r = 4$$

Draw

$$y = \frac{1}{x}$$



Find x

$$x = 20$$

$$10x - 20 = 180$$

$$10x = 200 \quad x = 20$$

Find y

$$360 - 76 =$$

$$284^\circ$$

Solve $x^2 + 8x - 2 = 0$ using completing the square

$$(x+4)^2 - 16 - 2 = 0$$

$$(x+4)^2 - 18 = 0$$

$$(x+4)^2 = 18$$

$$x+4 = \pm\sqrt{18}$$

$$x = -4 \pm \sqrt{18}$$

$$x = -4 + 3\sqrt{2} \text{ or } x = -4 - 3\sqrt{2}$$