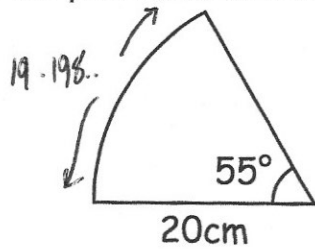




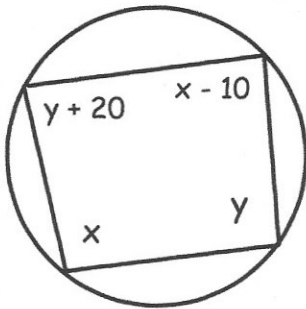
Find the perimeter of this sector.



$$\frac{55}{360} \times \pi \times 40 = 19.198\dots$$

$$19.198\dots + 20 + 20$$

$$= 59.199 \text{ cm}$$



$$x + x - 10 = 180$$

$$2x = 190$$

$$x = 95^\circ$$

$$y + y + 20 = 180$$

$$2y = 160$$

$$y = 80^\circ$$

Find x and y.

$$x = 95^\circ$$

$$y = 80^\circ$$

Solve the simultaneous equations

$$3x - 4y = 18$$

$$2x - 5y = 19$$

$$6x - 8y = 36$$

$$6x - 15y = 57 \text{ (sub)}$$

$$7y = -21$$

$$y = -3$$

$$3x + 12 = 18$$

$$3x = 6$$

$$x = 2$$

w is inversely proportional to c squared.

When w = 100, c = 2.

Find w when c = 4.

$$w \propto \frac{1}{c^2}$$

$$w = \frac{k}{c^2}$$

$$100 = \frac{k}{4}$$

$$k = 400$$

$$w = \frac{400}{c^2}$$

$$w = \frac{400}{4^2} = 25$$

Work out $64^{\frac{2}{3}}$

$$\sqrt[3]{64} = 4$$

$$4^2 = 16$$