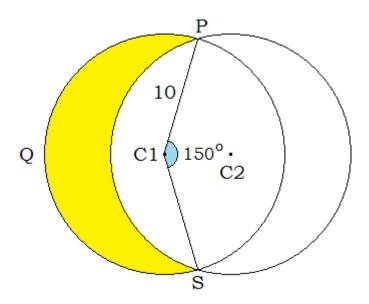
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Crescent Area

Raindrop 8



The diagram shows two circles, each of radius 10 units, which partially overlap. C1 and C2 are the centres of the circles.

The minor sector angle PC1S is 150°.

Find the area of the shaded crescent in terms of π .

The answer follows on the next page ...

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Raindrop 8

Answer: The crescent area = $\frac{50}{3}$ (π + 3)