Physics Prince | December of Centres

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Geometry of Circles

Budgets who aucossoluly complete this printer will be able to:

- Catuality by area and properlywance of a droke.
- Apply the relational to between the helius of a circle and at. an array.

(3) 11/67 Figure 1

* 1

Radios, redians, and an length

In many physics applications, it is increased to convert between the distance time the center of a cross, the harbour in a polytope along the properties outled the pro-length as These has parameters are resided by the erigin F exect out from the starting point of the eric, spleadly defined as the event, and the end point (Figure 2).

Scientists and mathematicians foliosity resource the angle of in realizate rather from diagnosis, which is defined as:

This second formule is another was to write the definition of prountference with a being an art the completes an entire price and in being the radius of the circle. That issues that De exact ha the analy of the entry contra-

In fact, the natura of a direte can be frought of as a conveneur factor between the angular position if and the account in

$$1 \text{ radius} = 1 \text{ radius} \left(\frac{367}{56 \text{ radius}} \right) = 17.5^{\circ}.$$

Clish here to earth a robot hat water through the patiently of those, including a worked out express. Her process the questions that below.



Part 6 - Determining are length.

What is the length of an arc on a cross of hadow 30.0 cm, when $\theta=40^{\circ}$?

Express your answer (in (iii) to three significant figures.

1 State



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