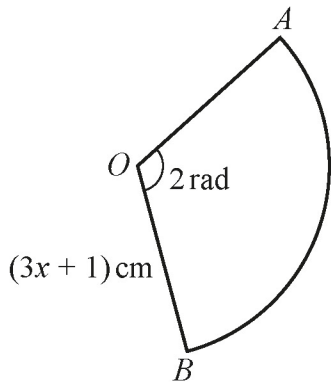


2 In this question you must show detailed reasoning.



The diagram shows a sector AOB of a circle with centre O and radius $(3x + 1) \text{ cm}$. The angle AOB is 2 radians. The area of sector AOB is less than $(44x - 7) \text{ cm}^2$.

Find the set of possible values of x . Give your answer in set notation.

[5]