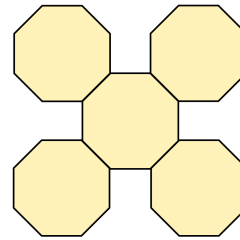
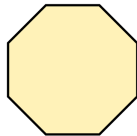
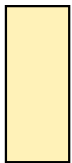


AB and AC are tangents.
Find x .

Simplify

$$\frac{x^2 + 3x - 4}{x^2 - 8x + 7}$$

Here is a rectangle and a regular octagon.



The length of the rectangle is 12cm longer than the width of the rectangle. The perimeter of the rectangle is equal to the perimeter of the octagon. 5 of the regular octagons are used to make a shape.

The perimeter of this shape is 132cm
Work out the area of the rectangle

Simplify

$$2\sqrt{3} \times 3\sqrt{300}$$