

15th May

Corbettmaths

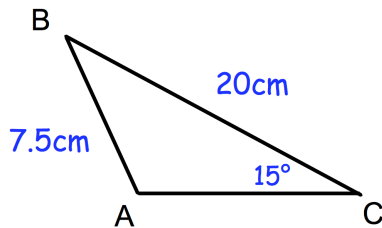
$$2a(3x + 7) + 4(ax - 2) \equiv 130x + b$$

Work out a and b

$$f(x) = \frac{x}{3x + 1} \text{ for positive values of } x.$$

Work out $f(x + 2) - f(x)$

Give your answer as a simplified fraction.

Angle BAC is obtuse.
Work out the size of angle BAC.

$$y = x^5 - \frac{1}{x^4}$$

Work out $\frac{d^2y}{dx^2}$