

4th August

Corbettmaths

The lines $y = x - 7$ and $y = 4x - 19$ intersect at the point A.

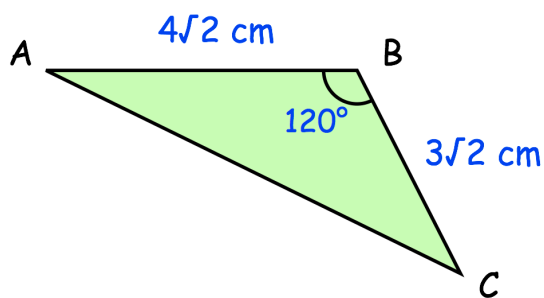
The point B has coordinates $(-2, 11)$

Find the equation of the line that passes through A and B.

Find the distance between A and B.

Solve $5\sin x = 8\cos x$ for

$$0^\circ \leq x \leq 360^\circ$$



Calculate the length of AC.
(non-calculator)

Prove that

$$\frac{\sin x - \sin^3 x}{\cos^3 x} \equiv \tan x$$