21st March **Higher 5-a-day**

Corbettmaths

$f(x) = 1 + cosx°$

Find $f(100)$
Give your answer to 3 decimal places.

$1 + \cos(100)$

0.826

Work out $8^{\frac{4}{3}}$

$\sqrt[3]{8} = 2$

$2^4 = 16$

The probability that Nita passes her English exam is 0.7 and the probability that she passes her French exam is x.

fail French $(1-x)$

The probability she fails both exams is 0.06

fail English 0.3

Find x

$0.3(1-x) = 0.06$

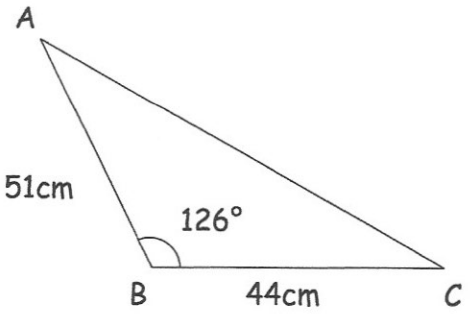
$1 - x = 0.2$

$x = 0.8$

Find the area of triangle ABC

$\frac{1}{2} \times 51 \times 44 \times \sin 126$

$907.7\ cm^2$



Expand and simplify $(2+\sqrt{5})^2$

$(2+\sqrt{5})(2+\sqrt{5})$

$4 + 2\sqrt{5} + 2\sqrt{5} + 5$

$9 + 4\sqrt{5}$