

22nd September

Corbettmaths

Expand $(8 - \sqrt{3})^2$ giving your answer in form $a + b\sqrt{3}$

Solve to one decimal place

$$\frac{1}{2x+1} + \frac{4}{x-2} = 1$$

Rebecca has 9 cards, each with a number on it.

2	2	3	4	5	6	6	7	9
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She picks three cards at random, without replacement.

Rebecca multiplies the three numbers to get a score.

Calculate the probability that the score is an even number

ABC is an isosceles triangle in which $AC = BC$.
D and E are points on BC and AC such that $CE = CD$.

Prove triangles ACD and BCE are congruent.

