22nd September

Higher Plus 5-a-day



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

C, D and E are such that

Work out the ratio of C:E

C:D = 1:4

D is $\frac{7}{8}$ of E

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

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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

Solve to one decimal place

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