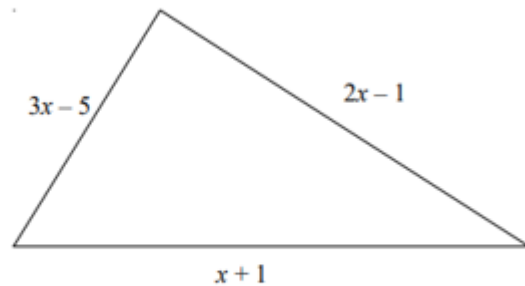


WE DO

The lengths, in cm, of the sides of a triangle are $3x - 5$, $2x - 1$ and $x + 1$

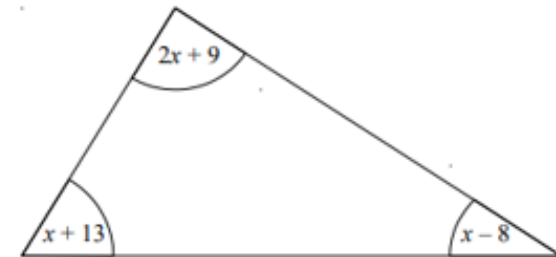


The perimeter of the triangle is 31 cm.

(b) Work out the value of x .

YOU DO

The sizes of the angles, in degrees, of a triangle are $2x + 9$, $x + 13$ and $x - 8$



Work out the value of x .

WE DO

Here are the first 5 terms of a sequence.

9 14 19 24 29

Find an expression, in terms of n , for the n th term of this sequence.

YOU DO

Here are the first 5 terms of a sequence.

17 14 11 8 5

(a) Find the next term of this sequence.

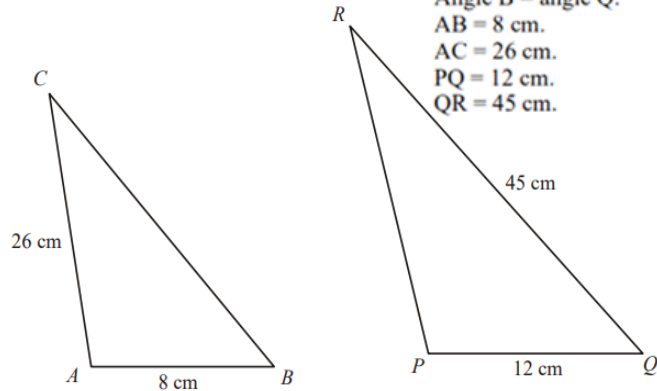
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The n th term of a different sequence is $10n^2 + 5$

(b) Work out the 5th term of this sequence.

WE DO

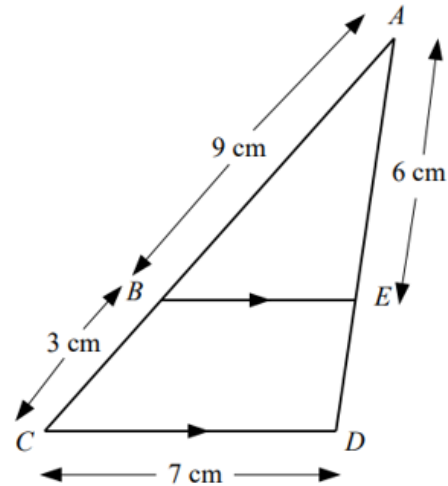
The two triangles ABC and PQR are mathematically similar.
 Angle A = angle P.
 Angle B = angle Q.
 AB = 8 cm.
 AC = 26 cm.
 PQ = 12 cm.
 QR = 45 cm.



(a) Calculate the length of PR .

(b) Calculate the length of BC .

YOU DO



BE is parallel to CD .
 $AB = 9$ cm, $BC = 3$ cm, $CD = 7$ cm, $AE = 6$ cm.

(a) Calculate the length of ED .

(b) Calculate the length of BE .

WE DO

Leigh-Anne invests £2500 for 4 years in a savings account.
She gets 3% per annum compound interest.

How much money does Leigh-Anne have at the end of 4 years.

YOU DO

Annie invests £9500 for 5 years in a savings account.
She gets 1.8% per annum compound interest.

How much money does Annie have at the end of 5 years.

WE DO

A number y is rounded to 1 decimal place.

The result is 19.3

Write down the error interval for y .

YOU DO

A number y is rounded to 2 decimal places.

The result is 1.26

Write down the error interval for y .

WE DO

Factorise $15y - 6$

YOU DO

Factorise fully $30x^3 + 12x$

WE DO

(a) Write 2.36×10^{-4} as an ordinary number.

(b) Write 127 000 in standard form.

(c) Work out $(5 \times 10^2) \times (7 \times 10^{-4})$
Give your answer in standard form.

YOU DO

(a) Write 1.63×10^{-3} as an ordinary number.

(b) Write 438 000 in standard form.

(c) Work out $(4 \times 10^3) \times (6 \times 10^{-5})$
Give your answer in standard form.