

- 23 Rearrange this formula to make x the subject.

$$5x^2 - 3y = 4y + 8$$

M1 for $5x$ power 2 = $4y+3y+8$ or better

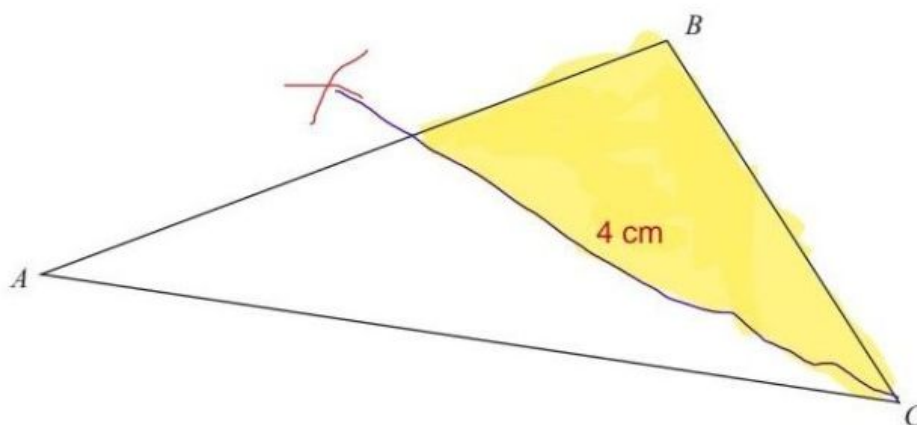
M1 for x power 2 = their $(4y+3y) + 8/5$ or better

M1 for $x = \sqrt{\text{their } (7y) + 8/5}$

An incorrect final answer scores a maximum of 2

$$x = \dots\dots\dots \sqrt{7y+8/5} \dots\dots\dots [3]$$

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- (a) (i)** Using a straight edge and compasses only, construct the perpendicular bisector of AB .
Show all your construction on arcs. [2]
Ruled bisector of AB with 2 pairs of correct arcs
- (ii)** Using a ruler and compasses only, construct the locus of points inside the triangle that are 4 cm from C . [1]
Arc centre C radius 4 cm
- (b)** Shade the region inside the triangle that is
- more than 4 cm from C
- and
- closer to B than to A .
- Closed region shaded [1]