7 Work out $\sqrt{\dfrac{2.5 \times \sin 43°}{8.2^2 - 50.5}}$

Give your answer correct to 3 significant figures.

....

(Total for Question 7 is 2 marks)

8 *ABC* is a right-angled triangle.
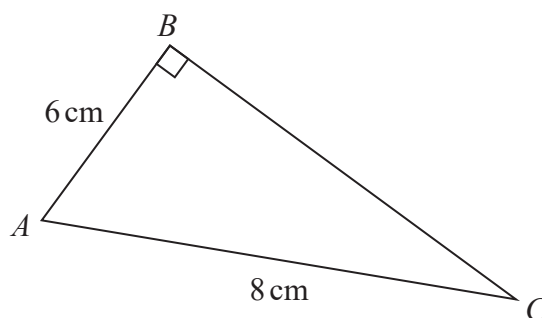
Here is Sarah's method to find the length of *BC*.

$BC^2 = AB^2 + AC^2$
$= 6^2 + 8^2$
$= 100$
$BC = 10$

(a) What mistake has Sarah made in her method?

....

....

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(1)
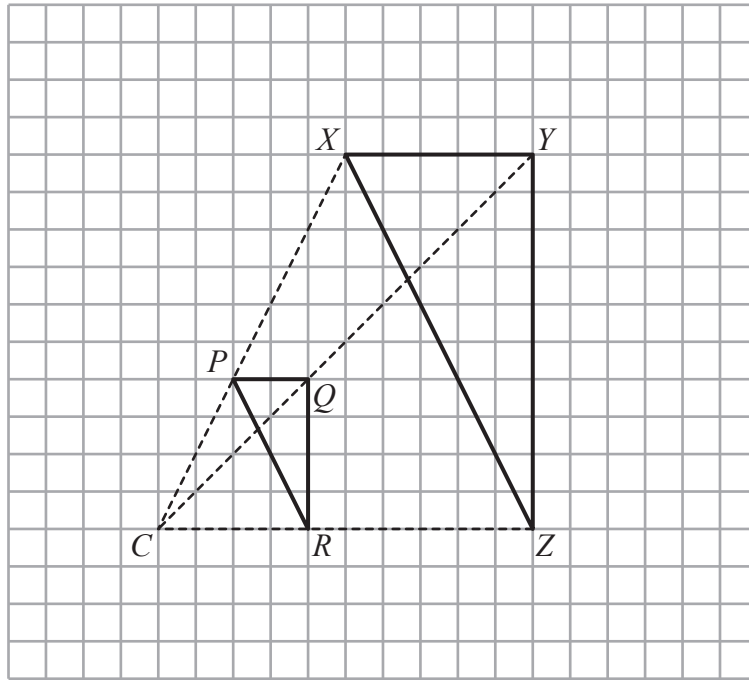
Roy is going to enlarge triangle PQR with centre C and scale factor $1\frac{1}{2}$

He draws triangle XYZ.

(b) Explain why Roy's diagram is **not** correct.

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....

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(1)

(Total for Question 8 is 2 marks)