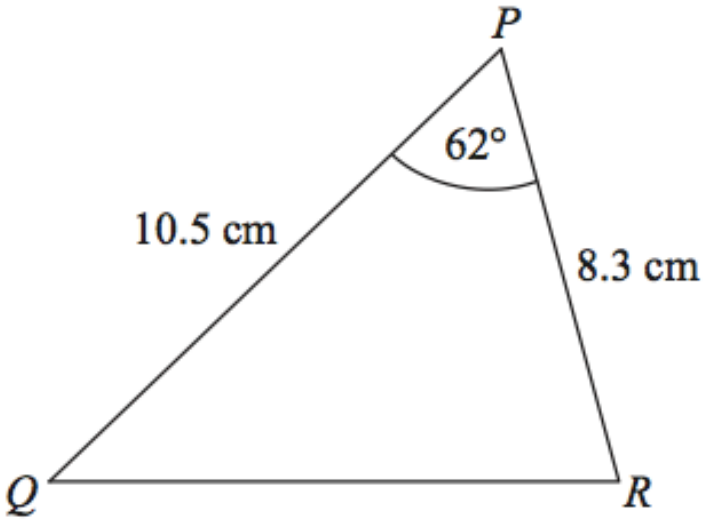
Geometry - Trigonometry area of Triangle

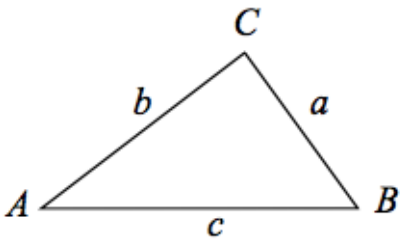


In triangle PQR,

$PQ = 10.5$ cm,
$PR = 8.3$ cm.
angle $QPR = 62°$.

(a) Calculate the area of triangle PQR.
Give your answer correct to 3 significant figures.

In any triangle ABC



Area of triangle $= \frac{1}{2}ab \sin C$

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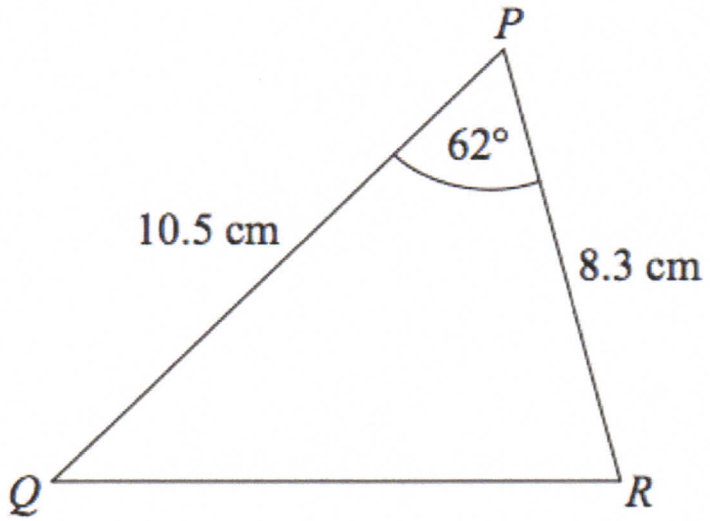

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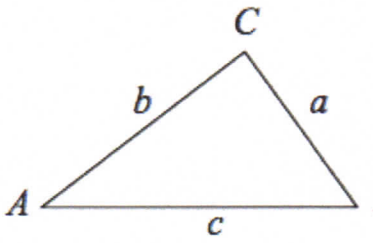

Area of triangle $= \frac{1}{2}ab\sin C$

Area $= \frac{1}{2} \times 10.5 \times 8.3 \times \sin 62^\circ$

$= 38.5 \text{ cm}^2$