GEOMETRY · HOMEWORK

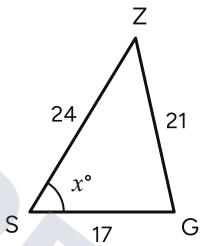
Use the Law of Cosines to Find an Angle Measure

SCORE / 25

01 Part A · Practice

With three sides (SSS), solve $c^2 = a^2 + b^2 - 2ab\cos C$ for $\cos C$, then use $\cos^{-1}$.

1 ●○○ Find $m\angle S$. Round to the nearest tenth.



2 ●○○ A triangle has sides 11, 22, 24. Find its largest angle and tell whether the triangle is acute or obtuse. Round to the nearest tenth.

3 ●○○ In $\triangle QLP$, $LP = 16$, $QP = 25$, $QL = 20$. Find $m\angle P$. Round to the nearest tenth.

4 ●○○ Find all three angles of $\triangle JGL$ with $GL = 19$, $JL = 16$, $JG = 12$. Round to the nearest tenth.

5 ●○○ A triangle has sides 16, 29, 21. Find its largest angle and tell whether the triangle is acute or obtuse. Round to the nearest tenth.

6 ●○○ In $\triangle KER$, $ER = 13$, $KR = 30$, $KE = 29$. Find $m\angle E$. Round to the nearest tenth.

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Preview - the full worksheet and its answer key are at primeworksheet.com