

Algebra 2 (A/B) Quiz 8.5 and 13.5

1. (10 points)

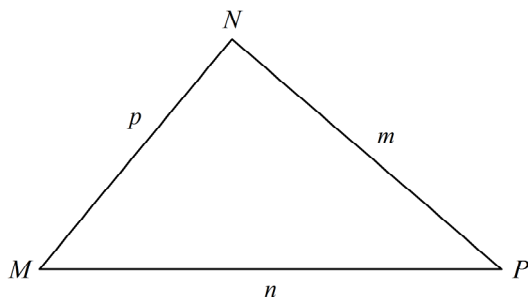
A triangle has a side with length 6 feet and another side with length 8 feet. The angle between the sides measures 73° .

Use the formula: $a = \frac{1}{2} \cdot b \cdot c \cdot \sin A$ to find the area of the triangle.

2. (10 points)

Solve the triangle. $m\angle N = 118^\circ$, $m\angle P = 33^\circ$, and $m = 15$. Round to the nearest tenth.

The Law of Sine is: $\frac{\sin A}{a} = \frac{\sin B}{b}$



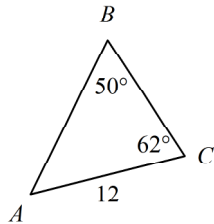
$m\angle M =$ _____ , $n \approx$ _____ , $p \approx$ _____

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3. (10 points)

Find AB . Round to the nearest tenth. The Law of Sine is: $\frac{\sin A}{a} = \frac{\sin B}{b}$



4. (10 points)

Use a calculator to find the trigonometric ratios. Round to the nearest hundredth.

$$\sin 131^\circ = .$$

$$\cos 118^\circ =$$

$$\tan 115^\circ =$$

5. (10 points)

Find AC . Round to the nearest tenth. The Law of Sine is: $\frac{\sin A}{a} = \frac{\sin B}{b}$

