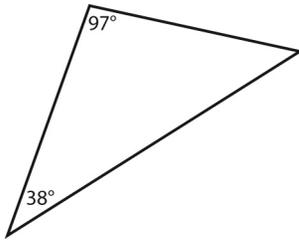


Chapter 7 Warm-Up

Section 7.1 Warm-Up

1. Evaluate $\sin 42^\circ$ to three decimal places.
2. Determine the measure of $\angle A$, to the nearest degree, when $\cos A = 0.515$.
3. Determine the measure of the unknown angle.



Section 7.2 Warm-Up

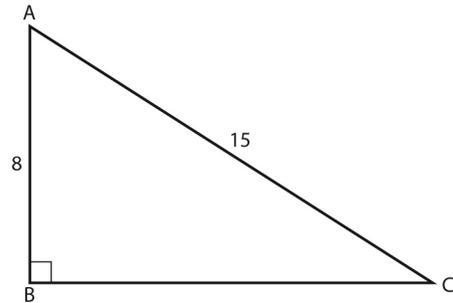
1. Write two ratios that are equivalent to $\frac{m}{\sin M}$ in $\triangle MNO$.
2. Solve for the unknown side, to the nearest tenth of a metre.

$$\frac{a}{\sin 29^\circ} = \frac{43 \text{ m}}{\sin 72^\circ}$$

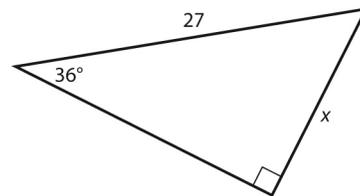
3. Solve for the unknown angle, to the nearest degree.

$$\frac{\sin A}{36} = \frac{\sin 46^\circ}{50}$$

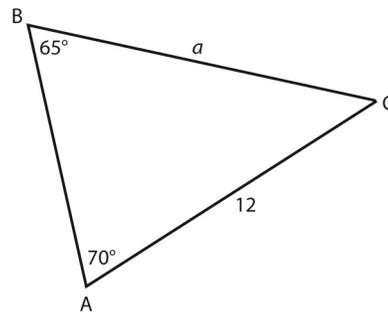
4. Determine the measure of $\angle A$, to the nearest degree.



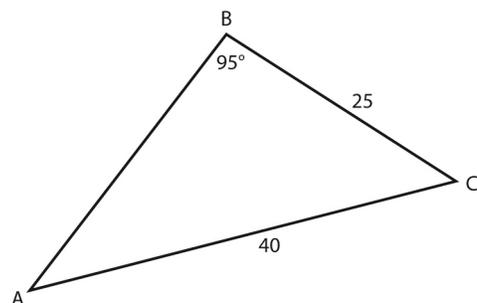
5. Determine the length of side x , to the nearest tenth of a unit.



4. Determine the length of side a , to the nearest tenth of a unit.

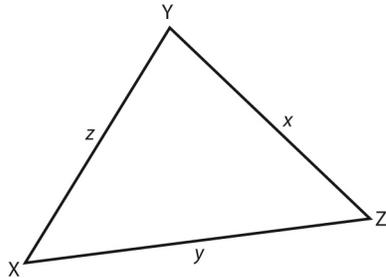


5. Determine the measure of $\angle A$, to the nearest degree.



Section 7.3 Warm-Up

1. Write the cosine law to determine the length of side y in $\triangle XYZ$.

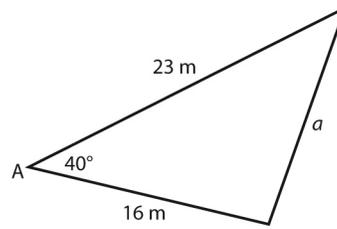


2. Write the cosine law to determine the measure of $\angle Z$ in $\triangle XYZ$.

3. Determine the measure of $\angle C$, to the nearest degree.

$$\cos C = \frac{50^2 + 40^2 - 30^2}{2(50)(40)}$$

4. Determine the length of side a , to the nearest tenth of a metre.



5. Determine the measure of $\angle A$, to the nearest degree.

