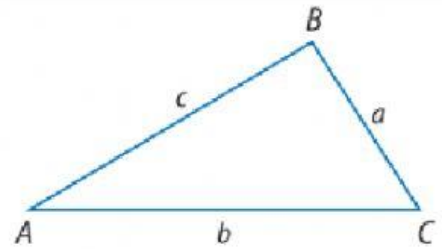


Name in English

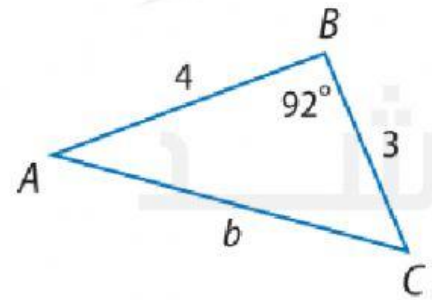
1. For triangle ABC, which of the following is not true?

- a) $a^2 = b^2 + c^2 - 2bc \cos A$
- b) $b^2 = a^2 + c^2 - 2ac \cos B$
- c) $c^2 = a^2 + b^2 - 2ab \cos C$
- d) $c^2 = a^2 + b^2 + 2ab \cos C$



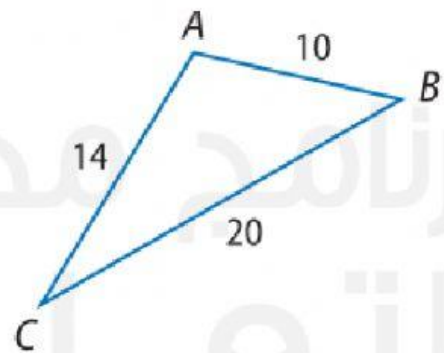
2. Solve the triangle. Round side lengths to the nearest tenth and angle measures to the nearest degree.

- a) A =
- b) C =
- c) b =



3. Solve the triangle. Round side lengths to the nearest tenth and angle measures to the nearest degree.

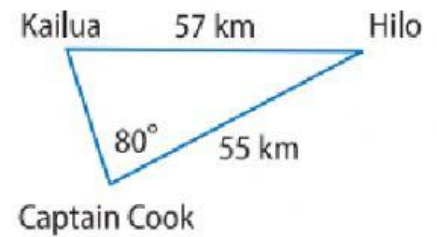
- a) A =
- b) B =
- c) C =



In Hawaii, the distance from Hilo to Kailua is 57 kilometers, and the distance from Hilo to Captain Cook is 55 kilometers.

4. What is the measure of the angle formed at Hilo (round to the nearest degree)?

- a) 110°
- b) 72°
- c) 28°
- d) *none of the above*



5. What is the distance between Kailua and Captain Cook (round to nearest kilometer)?

- a) 20 km
- b) 27.17 km
- c) 25 km
- d) *none of the above*

6. Find the distance between the ship and shipwreck shown in the diagram. Round to the nearest tenth.

- a) 510.22 m
- b) 514.22 m
- c) 514 m
- d) None of the above

