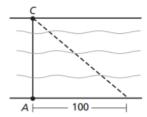
Trigonometry Homework

Tuesday, March 1, 2022 8:14 AM

- **8.** An environmentalist wants to measure the width of a river to monitor its erosion. From point A, she walks downstream 100 feet and measures the angle from this point to point C to be 40° .
 - **a.** How wide is the river? Round to the nearest tenth.



- **9.** A boy flies a kite at an angle of elevation of 18°. The kite reaches its maximum height 300 feet away from the boy. What is the maximum height of the kite? Round to the nearest tenth.
- **14.** A camera attached to a kite is filming the damage caused by a brush fire in a closed-off area. The camera is directly above the center of the closed-off area.
 - **a.** A person is standing 100 feet away from the center of the closed-off area. The angle of depression from the camera to the person flying the kite is 25°. How long is the string on the kite?
- **11.** A boat is pulled in by a winch on a dock 12 feet above the deck of the boat. When the winch is fully extended to 25 feet, what is the angle of elevation from the boat to the winch?

