

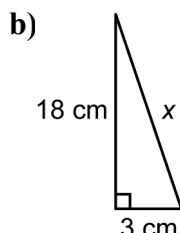
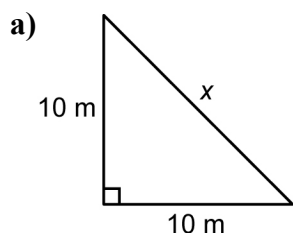
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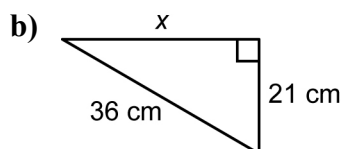
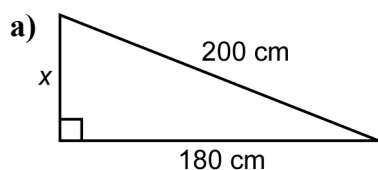
BLM 2.1.1

Practice: The Pythagorean Theorem

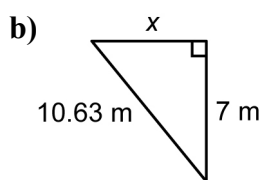
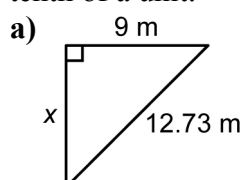
1. Calculate the length of each hypotenuse to the nearest tenth of a unit.



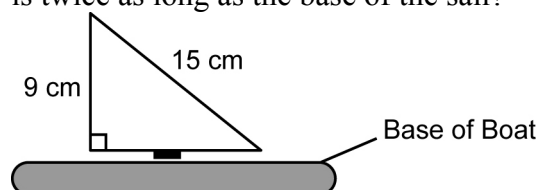
2. Find each missing side length to the nearest tenth of a unit.



3. Find each missing side length to the nearest tenth of a unit.



4. Cheung is building a model sail boat for a school project. The height of the sail is 9 cm and the length of its diagonal is 15 cm. What is the length of the base of the boat if it is twice as long as the base of the sail?



5. Monika lives on Greenwood Avenue. The street is 400 m long. She likes to bicycle to school every morning. The school is on McCloud Road. This street is 300 m long and meets with Greenwood at the corner.



- a) Determine the distance that Monika travels if she bicycles along both streets from her house to the school.
- b) What is the distance that Monika travels if she takes a diagonal shortcut?
- c) How much shorter is the shortcut?