Practising Pythagoras

Draw diagrams to help you answer all of these questions. Give answers correct to two decimal places.



- 5. In a triangle abc, angle a = 90 degrees, ab = 11.3 cm, bc = 15.2 cm. Find ac.
- 6. In a triangle abc, angle a = 90 degrees, ab = 14 cm, bc = 15 cm. Find ac.
- 7. In a triangle abc, angle a = 90 degrees, ab = 0.03 cm, bc = 0.05 cm. Find ac.
- 8. A is a point (3, 1) and point B is the point (7, 9). Find the length of AB.
- 9. A ship sails 32 nautical miles due north then sails 22 nautical miles due east. How far is it from its starting point ?
- 10. The diagonal AC of a rectangle ABCD is 0.67 m long and side Ab is 0.32 m long. How long is side BC ?

Answers

- 1. 10.296 cm (3 d pl) 2. 3.225 cm (3 d pl) 3. 12.042 cm (3 d pl) 4. 102.005 cm (3 d pl) 5. 10.166 cm (3 d pl) 6. 5.385 cm (3 d pl) 7. 0.04 cm (2 d pl) 9. To got from point (3, 1), to (7, 0), we give
- 8. To get from point (3, 1) to (7, 9) we rise 4 and run 8



- x = 8.944 (3 d pl)
- 9. 38.833 nautical miles (3 d pl)
- 10. 0.5886 m (3 d pl)