

QT Pythagoras' Theorem - Challenging

- 1 (a) Calculate the lengths BD and AD, giving your answers correct to 2 decimal places.
 - (b) What is the total perimeter of the shape?
 - (c) What is the total area of the quadrilateral?





2. Find the length of XY when X and Y have the coordinates. Give your answer correct to 3 significant figures.

a) X (6,3) Y (2,8)

b) X (11,6) Y (13, 0)

3. Joe travels at 12 km/h for an hour due north. He then turns due west and travels at 6 km/h for one hour. How far is he from his starting point? What bearing must he travel to return home?



4. A builder is replacing a roof beam and needs to know its length. The measurements he knows are shown on the diagram. How long should the beam be? Give your answer correct to 2 decimal places.

