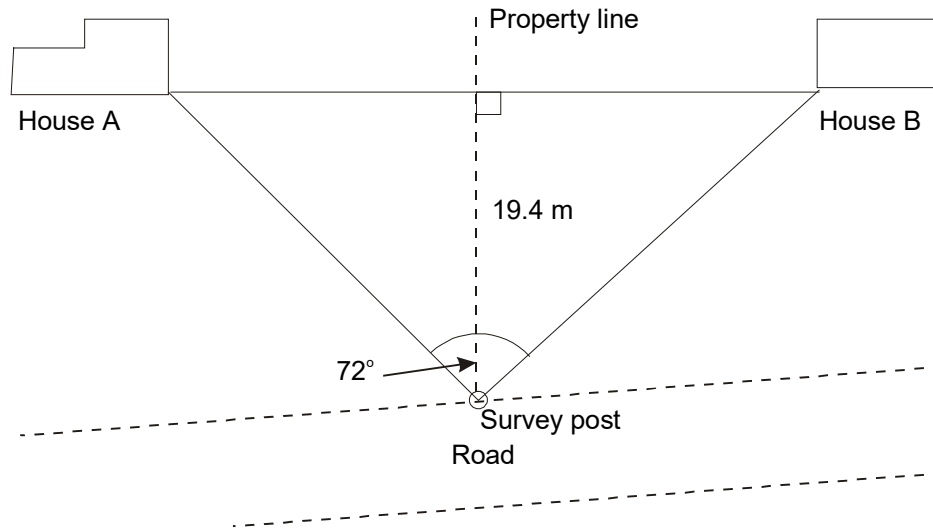## TRIGONOMETRY 3

1. Given that the property line is halfway between the two houses on the plan below, what is the distance between the two houses to the nearest tenth of a metre?

2. How far is the corner of house B from the survey post to the nearest tenth of a metre?

3. A carpenter is instructed to cut a right-angled wooden wedge 25 cm long in the base with an angle of 12°. How long will the sloping surface of the wedge be to the nearest millimetre?

4.   From a ladder, Wayne looks at a building 35 m away. He notes that the angle of elevation to the top of the building is 19° and the angle of depression to the bottom of the building is 7°. How high is the building?

5.   A slide in the Water Park is 9 m high. If the actual length of the slide is 14 m, what angle does the slide make with the horizontal?

ANSWER KEY

1. 28.2 m

2. 24.1 m

3. 256 mm

4. 16.3 m

5. 40°