Trigonometry: Solving Triangles & Angles of Elevation

WORKSHEET

Name: ..... Class: .....

Date: .....

MARK ____ / 17

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 Find x: opposite a $40°$ angle, hypotenuse 15 cm. **(2)**

2 Find x: adjacent to a $55°$ angle, hypotenuse 20 cm. **(2)**

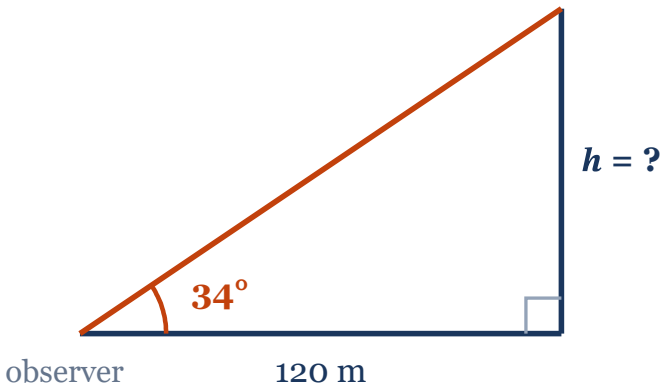
3 Find x: opposite a $30°$ angle, adjacent 12 cm. **(2)**

4 Find θ: opposite 7, adjacent 10. **(2)**

5 Find θ: opposite 5, hypotenuse 13. **(2)**

6 Find θ: adjacent 8, hypotenuse 17. (2)

7 From 120 m away the elevation to a tower top is $34°$. Find its height. (3)



8 What is the difference between an angle of elevation and one of depression? (2)

TOTAL: 17 marks

© Danemathics — free to print and share for classroom use.