WORKSHEET

Calculating lengths and angles

Giving answers to one decimal place or to the nearest degree, calculate the missing lengths and angles in these right-angled triangles

1

41°
15 cm
a

4

8 m
5 m
θ

7

9 cm
52°
m

2

34°
8 m
y

5

3 cm
7 cm
θ

8

13 cm
39°
d

3

x
10 cm
61°

6

11 m
21 m
θ

9

x
83°
25 cm

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10

15.2
θ
11.3

11

27°
h
21 cm

12

θ
67 m
54 m

13

x
3.7 cm
54°

14

n
15°
18.3 m

15

14.3 cm
29.4 cm
θ

16

θ
11.6 m
14.8 m

17

31°
47.3 m
y

18

27.5 cm
72°
x

19

33.7 cm
43°
x
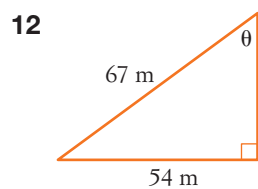
20

26.4 m
17.3 m
θ

21

θ
73.1 m
42.8 m
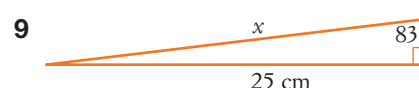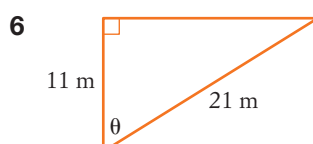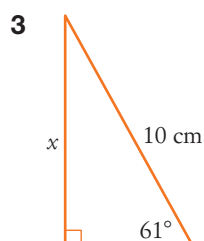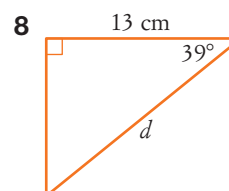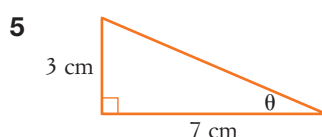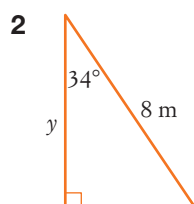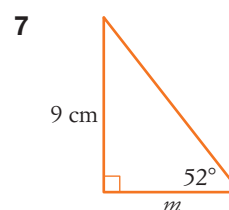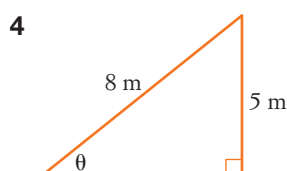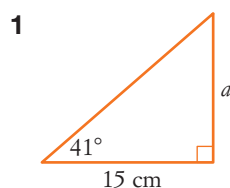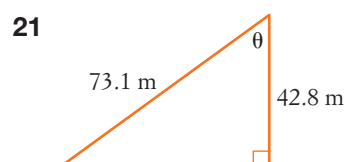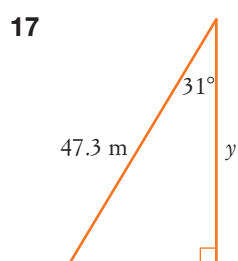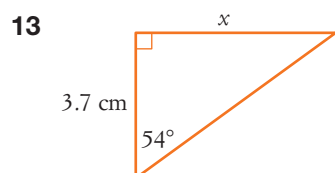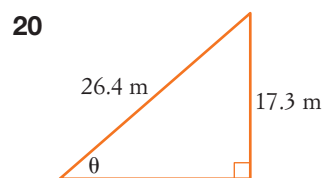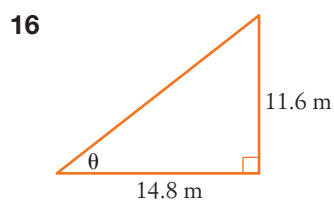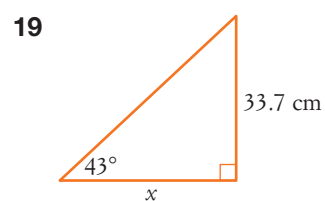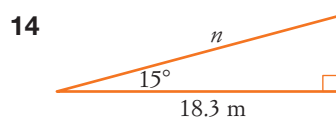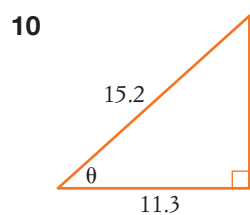
Answers

1 13.0 cm

2 6.6 m

3 8.7 cm

4 39°

5 23°

6 58°

7 7.0 cm

8 16.7 cm

9 25.2

10 42°

11 9.5 cm

12 54°

13 5.1 cm

14 18.9 m

15 29°

16 38°

17 40.5 m

18 89.0 cm

19 36.1 cm

20 41°

21 54°

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