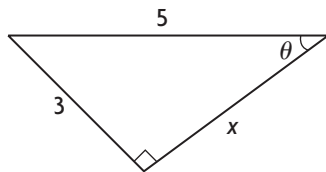


Chapter 5 Review Extra Practice

STUDENT BOOK PAGES 336–339

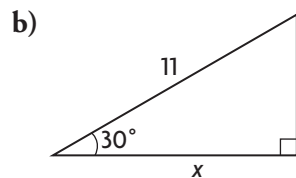
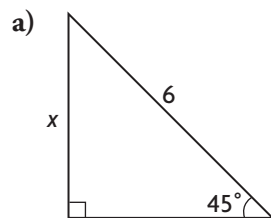
1. For the triangle below:



- Calculate the value of x .
- State the reciprocal trigonometric ratios for angle θ .
- Calculate θ to the nearest degree.

2. For each triangle:

- Calculate the exact value of x .
- Calculate the exact area.



3. State all values of θ that make the equation true if $0^\circ \leq \theta \leq 360^\circ$.

- $\sin 30^\circ = -\cos \theta$
- $\tan(-45^\circ) = -\tan \theta$
- $\cos(-60^\circ) = \sin \theta$

4. Given the following coordinates:

- Determine the value of r to the nearest tenth.
- State the primary trigonometric ratios for angle θ .
- State the value θ to the nearest degree if $0^\circ \leq \theta \leq 360^\circ$.
 - (2, 3)
 - (-9, 5)
 - (-4, -4)
 - (8, -3)

5. Simplify each expression.

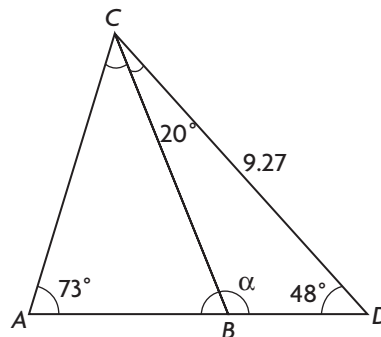
- $\frac{\cot \theta \times \sin \theta}{\cos \theta \times \csc \theta}$
- $\sec \theta \times (\sin \theta + \cos \theta)^2 - 2 \sin \theta$

6. Factor each expression.

- $\tan^2 \phi - 36$
- $\sin^2 \phi - 8 \sin \theta + 16$

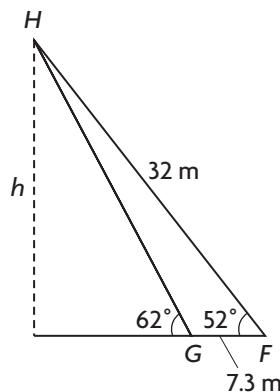
7. The distance between points C and D is 9.27 m.

Calculate BC and AD to the nearest hundredth of a metre.



8. The distance between points F and G is 7.3 m.

Calculate the height, h , to the nearest tenth of a metre.



9. Using the three-dimensional diagram below, calculate the distance, d , and height, h , to the nearest metre.

