

# CHAPTER 5

## Trigonometric Ratios

**NOTE:** Answers are given to the same number of decimal points as the numbers in each question.

### Getting Started, p. 274

1. a)



By the Pythagorean theorem,  $c^2 = a^2 + b^2$ .

$$c^2 = 5^2 + 12^2$$

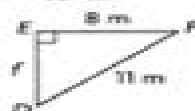
$$c^2 = 25 + 144$$

$$c^2 = 169$$

$$c = \sqrt{169}$$

$$c = 13 \text{ m}$$

b)



By the Pythagorean theorem,  $c^2 = d^2 + f^2$ .

$$11^2 = 8^2 + f^2$$

$$121 = 64 + f^2$$

$$f^2 = 121 - 64$$

$$f^2 = 57$$

$$f = \sqrt{57} \text{ m}$$

2. a)



From number 1,  $c = 13 \text{ m}$ .

$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\sin A = \frac{a}{c}$$

$$\sin A = \frac{5}{13}$$

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\cos A = \frac{b}{c}$$

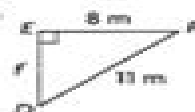
$$\cos A = \frac{12}{13}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$

$$\tan A = \frac{a}{b}$$

$$\tan A = \frac{5}{12}$$

b)



From number 1,  $f = \sqrt{57} \text{ m}$ .

$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\sin D = \frac{d}{c}$$

$$\sin D = \frac{8}{11}$$

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\cos D = \frac{f}{c}$$

$$\cos D = \frac{\sqrt{57}}{11}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$

$$\tan D = \frac{d}{f}$$

$$\tan D = \frac{8}{\sqrt{57}}$$

$$\tan D = \frac{8\sqrt{57}}{57}$$

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