

8-3 Standardized Test Prep

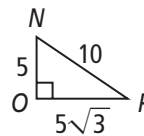
Trigonometry

Multiple Choice

For Exercises 1–6, choose the correct letter.

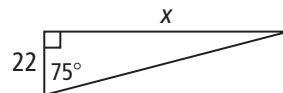
1. What is the value of $\sin N$?

- (A) $\frac{1}{2}$ (C) $\frac{\sqrt{3}}{2}$
 (B) $\frac{\sqrt{3}}{3}$ (D) $\sqrt{3}$



2. What is the value of x to the nearest tenth?

- (F) 5.7 (H) 30.3
 (G) 21.2 (I) 82.1



3. What is the value of x to the nearest degree?

- (A) 18 (C) 71
 (B) 19 (D) 72

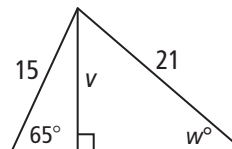


4. A 14-ft-long ramp rises at an angle of 22.2° . How long is the base of the ramp to the nearest foot?

- (F) 11 ft (G) 13 ft (H) 17 ft (I) 22 ft

5. What is the value of w to the nearest degree?

- (A) 25 (C) 40
 (B) 35 (D) 45



6. A right triangle has an angle that measures 34° and the adjacent side measures 17. What is the length of the hypotenuse to the nearest tenth?

- (F) 20.5 (G) 25.2 (H) 30.4 (I) 34

Short Response

7. A 12-ft-long ladder is leaning against a wall and makes an 80° angle with the ground. How high up the wall does the ladder reach, and how far is the base of the ladder from the base of the wall? Round to the nearest inch.