

Feedback for Quiz 100 on Mathematics 12.1 for 12.1

- 1 Find the percent of the acute angle if $\sin A = \frac{1}{\sqrt{2}}$.
- a. 31.6 b. $\sqrt{2}$ 19 c. 45.0
 d. 57.3 e. None of the above
- 2 In triangle ABC, $a = 10$ cm, $b = 20$ cm, and $c = 30$ cm. Find the largest angle, rounded to the nearest degree.
- a. $A = 32^\circ$ b. $A = 33^\circ$ c. $A = 34^\circ$ d. $A = 35^\circ$ e. $A = 37^\circ$
- 3 Two ships leave a harbor entrance at the same time. The first ship is traveling at a constant 30 miles per hour, while the second is traveling at a constant 23 miles per hour. If the angle between their courses is 120° , how far apart are they after 2 hours? Please round your answer to the nearest mile.
- a. 73 mi b. 71 mi c. 69 mi d. 67 mi e. 65 mi
- 4 The problem that follows refers to triangle ABC.
 If $A = 41^\circ$, $B = 107^\circ$ and $a = 10$ cm, find C and then find c , rounded to the nearest centimeter.
- a. $C = 98^\circ$, $c = 13$ cm b. $C = 98^\circ$, $c = 14$ cm c. $C = 97^\circ$, $c = 13$ cm
 d. $C = 99^\circ$, $c = 14$ cm e. $C = 99^\circ$, $c = 14$ cm
- 5 Find the tangent of the acute angle if $\sin A = \frac{1}{\sqrt{2}}$.
- a. $1 + \sqrt{2}$ b. $\sqrt{2}$ c. $\sqrt{2} + 1$
 d. None of the above e. $\sqrt{2} - 1$
- 6 In triangle ABC, $a = 3.2$ m, $c = 6.3$ m, and $B = 27^\circ$. Find b , rounded to the nearest tenth.
- a. 3.3 m b. 3.5 m c. 4.3 m d. 2.9 m e. 3.7 m
- 7 In triangle ABC, $a = 150$ inches, $b = 67$ inches, and $C = 60^\circ$. Find c , rounded to the nearest integer.
- a. 134 inches b. 122 inches c. 124 inches
 d. 132 inches e. 120 inches

Feedback for Mathematics Chapter 12

- 8 In triangle ABC,
 $A = 120^\circ$, $C = 33^\circ$ and $a = 20$ inches. Find b , rounded to the nearest inch.
- a. 60 inches b. 62 inches c. 64 inches
 d. 66 inches e. 68 inches