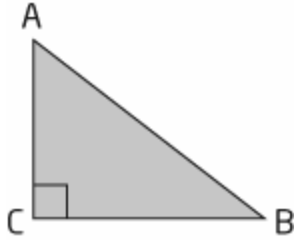


8.3 Worksheet on Using Basic Trig

Multiple Choice

Identify the choice that best completes the statement or answers the question.

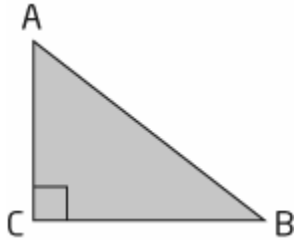
1.



If $AC = 8$ cm and $BC = 11$ cm, what is the tangent of $\angle A$ to the nearest thousandth?

- a. 0.500
- b. 0.728
- c. 1.236
- d. 1.375

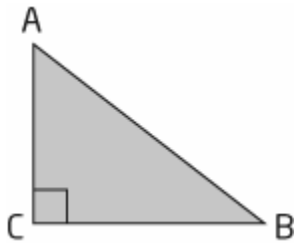
2.



If $AC = 8$ cm and $BC = 11$ cm, what is the sine of $\angle B$, rounded to the nearest thousandth?

- a. 0.588
- b. 0.728
- c. 0.809
- d. 1.375

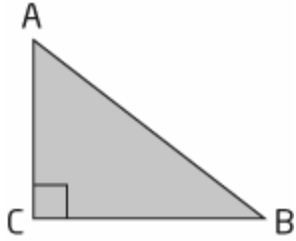
3.



What is the cosine of $\angle A$?

- a. $\frac{AC}{AB}$
- b. $\frac{BC}{AB}$
- c. $\frac{AC}{BC}$
- d. $\frac{BC}{AC}$

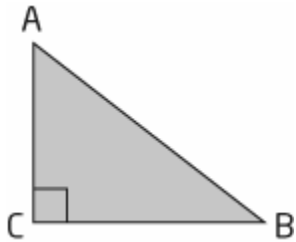
4.



If $AC = 10$ cm and $AB = 26$ cm, what is the sine of $\angle A$ to the nearest thousandth?

- a. 0.385
- b. 0.417
- c. 0.833
- d. 0.923

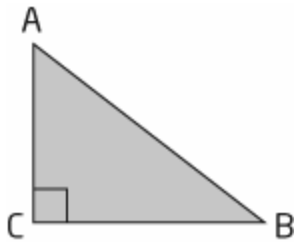
5.



If $AC = 9$ cm and $\angle B = 37^\circ$, what is the length of BC ?

- a. 8 cm
- b. 10 cm
- c. 12 cm
- d. 15 cm

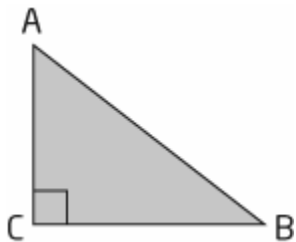
6.



If $BC = 48$ cm and $\angle A = 74^\circ$ what is the length of AC ?

- a. 14 cm
- b. 24 cm
- c. 25 cm
- d. 50 cm

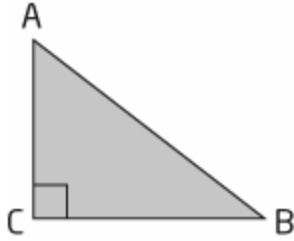
7.



If $BC = 11$ cm and $\angle B = 36^\circ$, what is the approximate length of AC ?

- a. 8 cm
- b. 9 cm
- c. 10 cm
- d. 13 cm

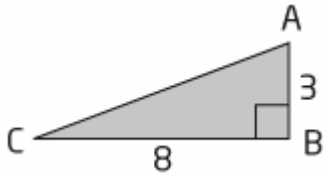
8.



If $BC = 12$ cm and $\angle B = 30^\circ$, what is the length of the hypotenuse AB to the nearest tenth of a centimetre?

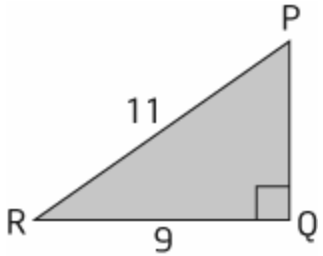
- a. 14.2 cm
- b. 13.9 cm
- c. 7.0 cm
- d. 5.1 cm

9. What is the measure of $\angle C$ to the nearest degree?



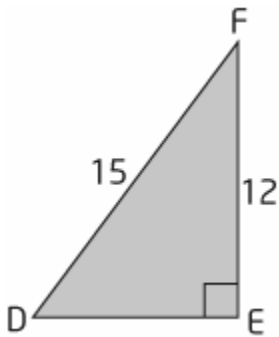
- a. 19°
- b. 20°
- c. 21°
- d. 22°

10. What is the measure of $\angle R$ to the nearest degree?



- a. 33°
- b. 35°
- c. 36°
- d. 40°

11. What is the measure of $\angle F$ to the nearest degree?



- a. 36°
- b. 37°
- c. 38°
- d. 39°