

Geometry

Name: _____

Date: _____

Unit 7 Trigonometry Practice A

Directions: Give only one answer to each question. If you change your answer, make sure that your previous answer is erased completely.

1. Find the sine of angle A.

- A. $\frac{5}{12}$ B. $\frac{12}{5}$ C. $\frac{5}{13}$ D. $\frac{12}{13}$

2. Find the tangent of angle B.

- A. $\frac{5}{12}$ B. $\frac{12}{5}$ C. $\frac{5}{13}$ D. $\frac{12}{13}$

3. Find the cosine of angle A.

- A. $\frac{5}{12}$ B. $\frac{12}{5}$ C. $\frac{5}{13}$ D. $\frac{12}{13}$

4. The cosine of 78° is approximately...

- A. 0.9781 B. 0.2079 C. 4.7046 D. 0.2006

5. The sine of 25° is approximately...

- A. 0.4226 B. 0.9063 C. 0.4663 D. 7.1206

6. Given that $\sin B = 0.9744$, approximately what is angle B?

- A. 26° B. 32° C. 5° D. 77°

7. Given that $\tan D = 1.1918$, approximately what is angle D?

- A. 26° B. 32° C. 50° D. 77°

8. Using the triangle to the right, the length of m is approximately...

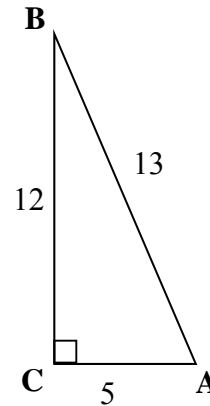
- A. 3.9 B. 4.9 C. 5.5 D. 2.9

9. Using the triangle to the right, the length of h is approximately...

- A. 3.9 B. 4.9 C. 5.5 D. 2.9

10. Two legs of a right triangle have lengths of 8 and 15. Find the measure of the angle of the smaller acute angle.

- A. $\approx 32.2^\circ$ B. $\approx 28.1^\circ$ C. $\approx 17^\circ$ D. $\approx 61.9^\circ$



1. (A) (B) (C) (D)

2. (A) (B) (C) (D)

3. (A) (B) (C) (D)

4. (A) (B) (C) (D)

5. (A) (B) (C) (D)

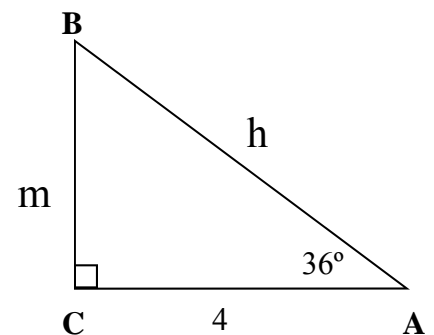
6. (A) (B) (C) (D)

7. (A) (B) (C) (D)

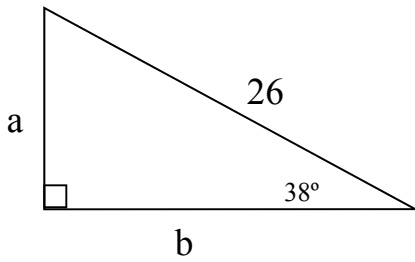
8. (A) (B) (C) (D)

9. (A) (B) (C) (D)

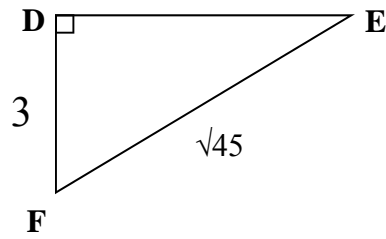
10 (A) (B) (C) (D)



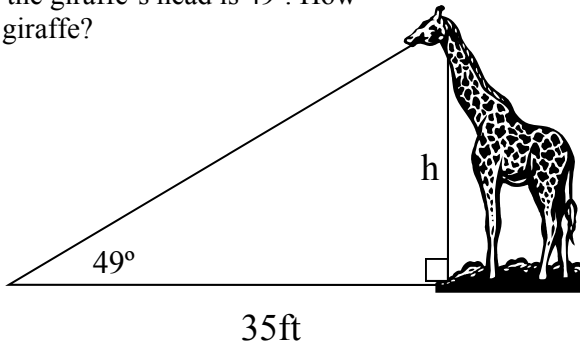
[G18.0] 11. Find a and b (approximately)



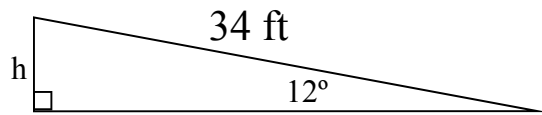
[G18.0] 12. Find Cos F



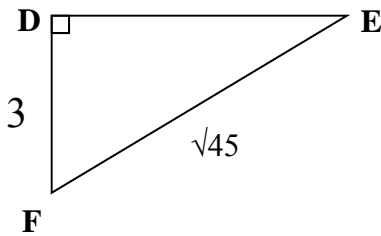
[G18.0] 13. At the zoo, you spy a giraffe 35 feet away. You notice that the angle from the ground to the top of the giraffe's head is 49° . How tall is the giraffe?



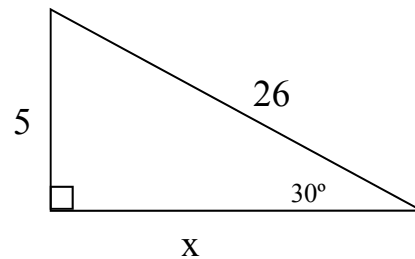
[G18.0] 14. A wheelchair ramp is 34 feet long and is angled at 12° . Find the height of the ramp from the ground to the top.



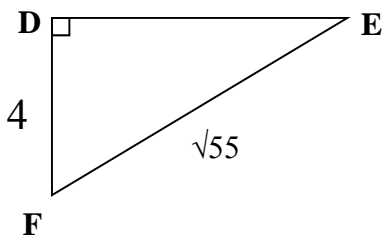
[G18.0] 15. Find Sin F



[G18.0] 16. Find x (approximately)



[G18.0] 17. Find $\text{Cos}^2 F$



[G18.0] 18. Using $\text{Cos}^2 F$ from #17, find Sin F

