

# Geometry

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Unit 7 Trigonometry Practice B

**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.  $\frac{3}{4}$       B.  $\frac{4}{5}$       C.  $\frac{4}{13}$       D.  $\frac{3}{5}$

2. Find the tangent of angle B.

- A.  $\frac{3}{4}$       B.  $\frac{4}{5}$       C.  $\frac{4}{13}$       D.  $\frac{3}{5}$

3. Find the cosine of angle A.

- A.  $\frac{3}{4}$       B.  $\frac{4}{5}$       C.  $\frac{4}{13}$       D.  $\frac{3}{5}$

4. The cosine of  $61^\circ$  is approximately...

- A. 0.9781      B. 0.4848      C. 4.7046      D. 0.6157

5. The sine of  $38^\circ$  is approximately...

- A. 0.4226      B. 0.4848      C. 0.4663      D. 0.6157

6. Given that  $\sin B = 0.9976$ , approximately what is angle B?

- A.  $26^\circ$       B.  $31^\circ$       C.  $55^\circ$       D.  $86^\circ$

7. Given that  $\tan D = 0.6009$ , approximately what is angle D?

- A.  $26^\circ$       B.  $31^\circ$       C.  $55^\circ$       D.  $86^\circ$

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

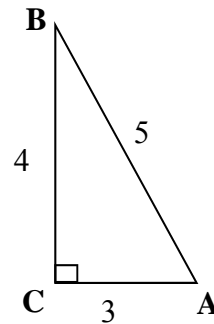
- A. 3.9      B. 4.6      C. 5.5      D. 4.1

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

- A. 3.9      B. 4.6      C. 5.5      D. 4.1

10. Two legs of a right triangle have lengths of 3 and 4. Find the measure of the angle of the smaller acute angle.

- A.  $\approx 32.2^\circ$       B.  $\approx 53.1^\circ$       C.  $\approx 17^\circ$       D.  $\approx 36.9^\circ$



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)

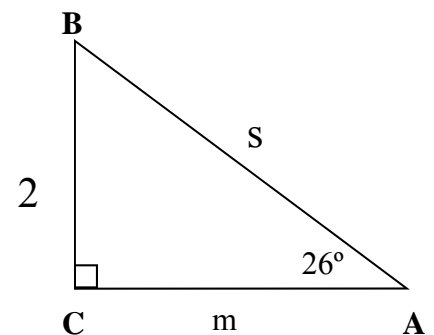
6. (A) (B) (C) (D)

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

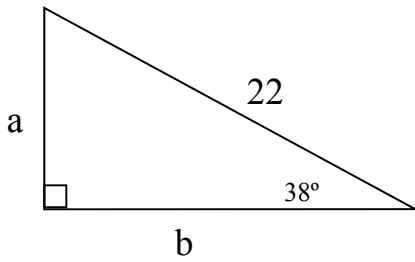
8. (A) (B) (C) (D)

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

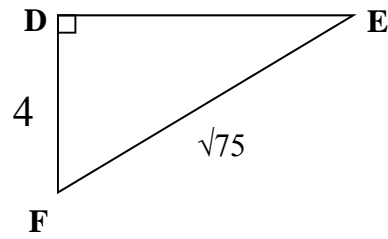
10 (A) (B) (C) (D)



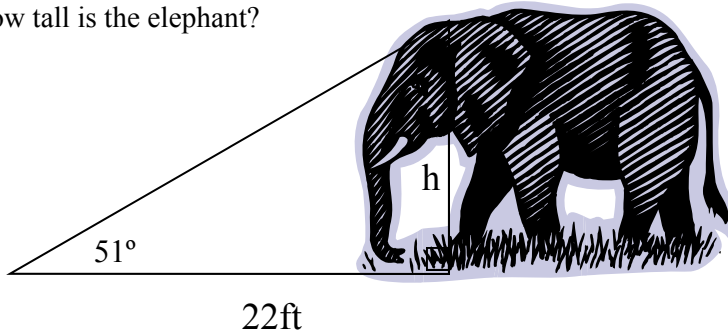
[G18.0] 11. Find a and b (approximately)



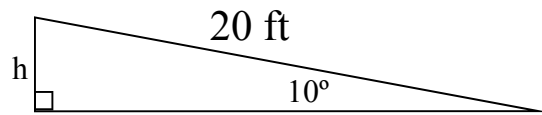
[G18.0] 12. Find Cos F



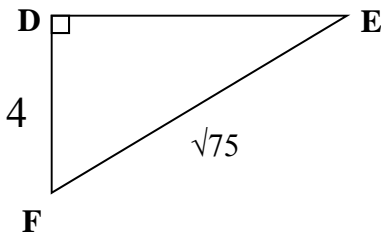
[G18.0] 13. At the zoo, you spy an elephant about 22 feet away. You notice that the angle from the ground to the top of the elephant's head is  $51^\circ$ . How tall is the elephant?



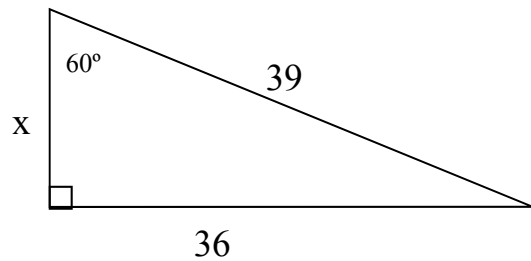
[G18.0] 14. A wheelchair ramp is 20 feet long and is angled at  $10^\circ$ . Find the height of the ramp from the ground to the top.



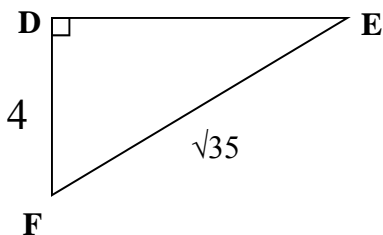
[G18.0] 15. Find Sin F



[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

