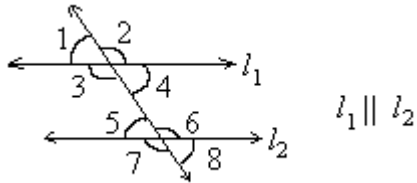


Name: _____ Date: _____

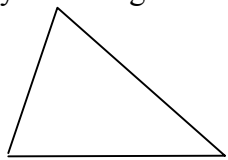
1. Identify angles 4 and 5 as alternate interior, alternate exterior, corresponding, or vertical.



- A) Corresponding B) Alternate interior C) Vertical D) Alternate exterior
2. Identify the quadrilateral.

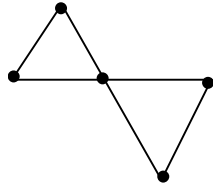


- A) Rhombus B) Rectangle C) Trapezoid D) Parallelogram
3. A tree which is 93 feet tall casts a shadow of 26 feet. Find the angle of elevation of the sun.
- A) 72° B) 77° C) 74° D) 79°
4. Classify the triangle according to sides and angles.



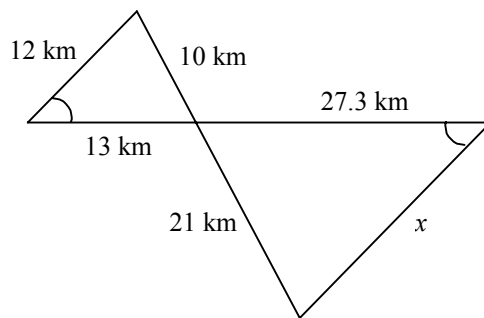
- A) Obtuse B) Isosceles and acute C) Scalene and obtuse D) Scalene and acute

5. Determine whether or not the network is traversable.



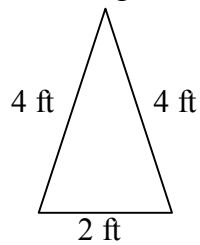
- A) No, it is not traversable. B) Yes, it is traversable.

6. The triangles in the figure below are similar. Use the proportional property of similar triangles to find the measure of x .



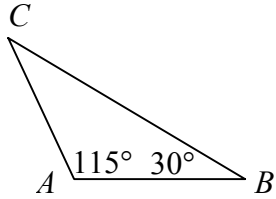
- A) 34.2 km B) 29.2 km C) 25.2 km D) 19.2 km

7. Classify the triangle according to sides.



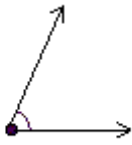
- A) Scalene B) Isosceles C) Equilateral

8. Find the measure of angle C .



- A) 25° B) 35° C) 40° D) 30°

9. Classify the angle as acute, right, obtuse, or straight.

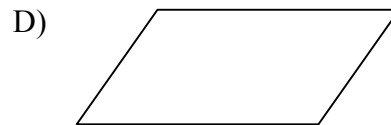
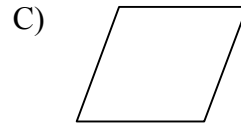
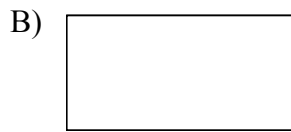
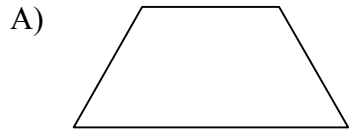


- A) Obtuse B) Right C) Straight D) Acute

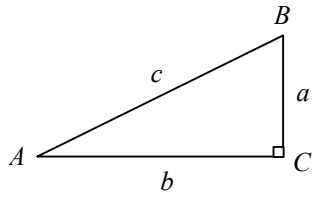
10. A tent is shaped like a pyramid. It has a square base measuring 8 feet on a side and a height of 6 feet. What is the volume of the tent?

- A) 512 ft^3 B) 128 ft^3 C) 16 ft^3 D) 32 ft^3

11. Which quadrilateral is a rhombus?

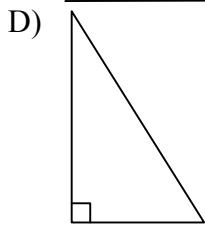
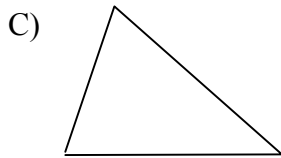
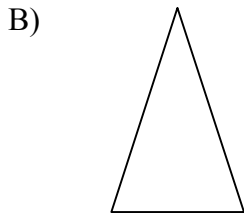
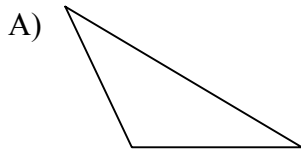


12. What is the definition of $\sin A$ for the following triangle?

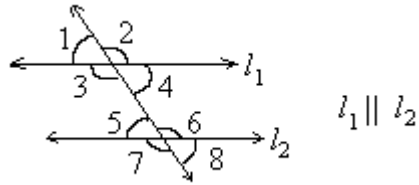


- A) $\frac{b}{a}$ B) $\frac{a}{c}$ C) $\frac{b}{c}$ D) $\frac{a}{b}$

13. Which triangle is obtuse?

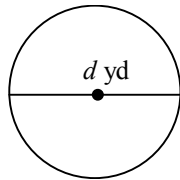


14. Identify angles 2 and 7 as alternate interior, alternate exterior, corresponding, or vertical.



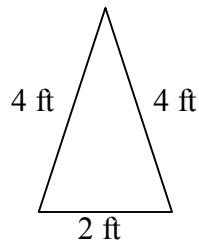
- A) Alternate exterior B) Vertical C) Alternate interior D) Corresponding

15. Find the circumference and area of the circle if $d = 30$. Use $\pi = 3.14$.

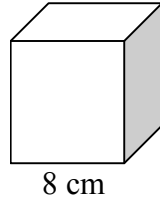


- A) Circumference = 94.2 yd, Area = 2826 yd²
 B) Circumference = 94.2 yd, Area = 706.5 yd²
 C) Circumference = 188.4 yd, Area = 2826 yd²
 D) Circumference = 188.4 yd, Area = 706.5 yd²

16. Classify the triangle according to sides and angles.



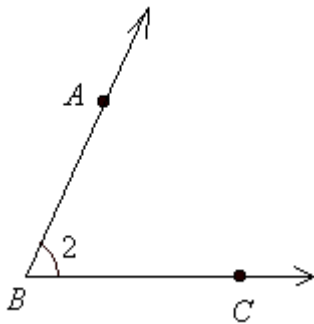
17. Find the surface area and volume.



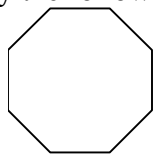
18. Find the measures of the complement and supplement of 65° .

19. In triangle ABC , the measure of angle A is 51° , and the measure of angle B is 57° . Find the measure of angle C .

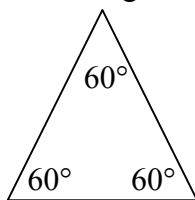
20. Name the angle in four different ways.



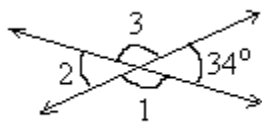
21. Identify the following polygon and find the sum of the measures of the angles.



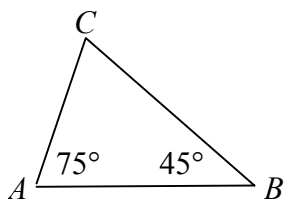
22. Classify the triangle according to sides and angles.



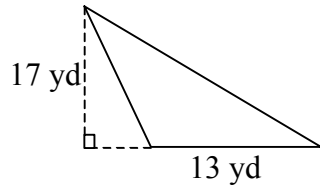
23. Find the measures of angles 1, 2, and 3.



24. Find the measure of angle C .



25. Find the area.



Answer Key

1. B
2. C
3. C
4. D
5. B
6. C
7. B
8. B
9. D
10. B
11. C
12. B
13. A
14. A
15. B
16. Isosceles and acute
17. $SA = 384$ square centimeters, $V = 512$ cubic centimeters
18. Complement = 25° , Supplement = 115°
19. 72°
20. $\sphericalangle ABC$; $\sphericalangle CBA$; $\sphericalangle B$; $\sphericalangle 2$
21. Octagon, 1080°
22. Equilateral and acute
23. $m\angle 1 = 146^\circ$, $m\angle 2 = 34^\circ$, $m\angle 3 = 146^\circ$
24. 60°
25. 110.5 yd^2