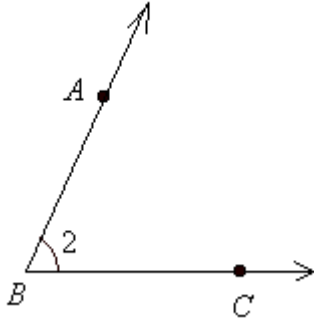


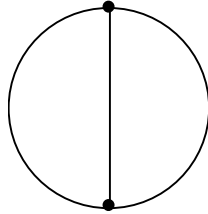
Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. Which of the following is not a way to name the angle shown?



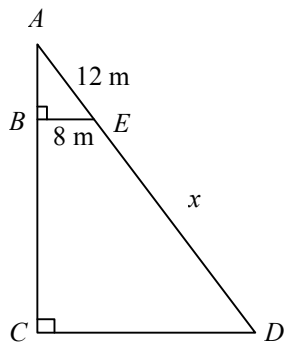
- A)  $\sphericalangle 2$       B)  $\sphericalangle BAC$       C)  $\sphericalangle CBA$       D)  $\sphericalangle B$

2. Determine whether or not the network is traversable.



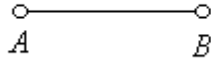
- A) No, it is not traversable.    B) Yes, it is traversable.

3. Use the proportional property of similar triangles to find the measure of  $x$  if the measure of  $\overline{CD}$  is 80.



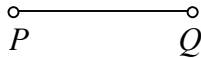
- A) 120 meters    B) 108 meters    C) 132 meters    D) 114 meters

4. Identify the figure.

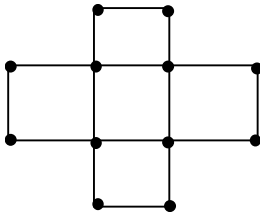


- A) Open segment   B) Ray   C) Half open segment   D) Segment
5. Find the measure of the supplement of  $10^\circ$ .
- A)  $350^\circ$    B)  $170^\circ$    C)  $80^\circ$    D)  $100^\circ$
6. In triangle  $ABC$ , angle  $C$  is a right angle. Find the measure of angle  $B$  if side  $b = 19$  m and side  $c = 94$  m.
- A)  $22^\circ$    B)  $12^\circ$    C)  $10^\circ$    D)  $16^\circ$

7. Identify the figure.

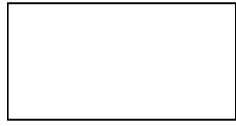


- A) Half line   B) Line   C) Ray   D) Open segment
8. Determine whether or not the network is traversable.



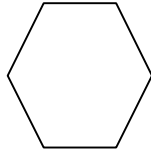
- A) No, it is not traversable.   B) Yes, it is traversable.
9. In triangle  $ABC$ , angle  $C$  is a right angle. Find the measure of side  $a$  if the measure of angle  $A$  is  $9^\circ$  and side  $c = 130$  yd.
- A) 24.383 yd   B) 20.332 yd   C) 30.455 yd   D) 17.765 yd

10. Identify the quadrilateral.



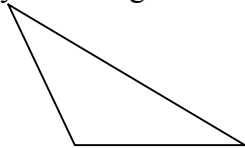
- A) Rectangle B) Trapezoid C) Rhombus D) Parallelogram

11. Identify the polygon and find the sum of the measures of the angles.



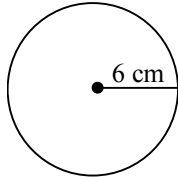
- A) Hexagon;  $900^\circ$  B) Heptagon;  $900^\circ$  C) Heptagon;  $720^\circ$  D) Hexagon;  $720^\circ$

12. Classify the triangle according to angles.



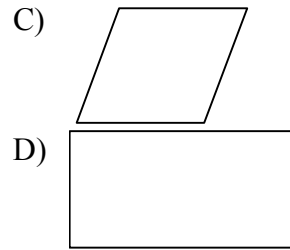
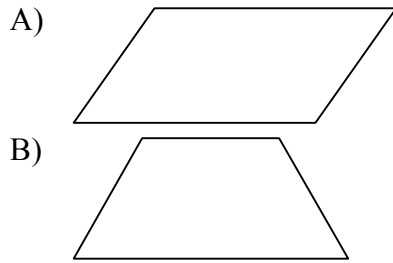
- A) Obtuse B) Right C) Acute

13. Find the circumference of the circle. Use  $\pi = 3.14$ .

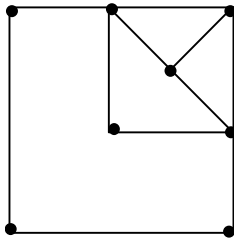


- A) 56.52 cm B) 113.04 cm C) 18.84 cm D) 37.68 cm

14. Which quadrilateral is a trapezoid?

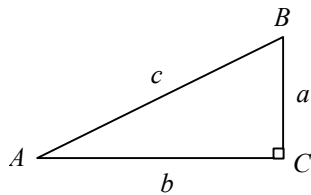


15. Determine whether or not the network is traversable.



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

16. What is the definition of  $\cos A$  for the following triangle?



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

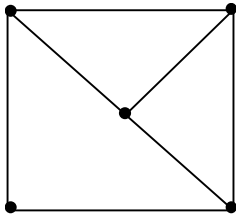
17. How many feet of fence will it take to enclose a rectangular plot 30 feet by 22 feet if an opening of 8 feet is to be left for a gate?

A) 96 feet B) 44 feet C) 52 feet D) 104 feet

18. An airplane flying at an altitude of 7200 feet sights the angle of depression to a control tower to be  $18^\circ$ . Find the horizontal distance the plane is from the control tower. (Disregard the height of the tower.)

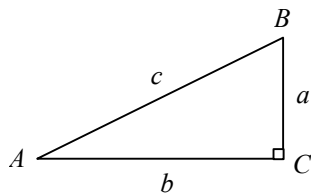
A) 23,300.97 ft   B) 2,339.42 ft   C) 7,570.18 ft   D) 22,160.66 ft

19. Determine whether or not the network is traversable.



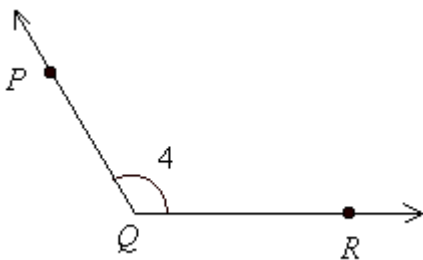
A) No, it is not traversable.   B) Yes, it is traversable.

20. What is the definition of  $\tan A$  for the following triangle?



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

21. Which of the following is not a way to name the angle shown?

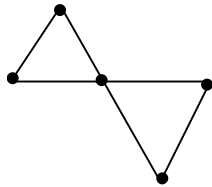


A)  $\sphericalangle 4$    B)  $\sphericalangle RQP$    C)  $\sphericalangle P$    D)  $\sphericalangle PQR$

22. 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?

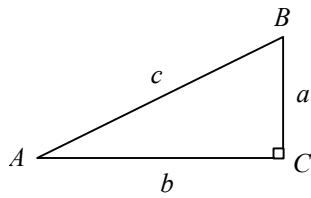
A)  $32 \text{ ft}^3$    B)  $512 \text{ ft}^3$    C)  $16 \text{ ft}^3$    D)  $128 \text{ ft}^3$

23. Determine whether or not the network is traversable.



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

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



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

25. What is the sum of the measures of the angles of a triangle?

A)  $180^\circ$    B)  $540^\circ$    C)  $900^\circ$    D)  $360^\circ$

**Answer Key**

1. B
2. B
3. B
4. A
5. B
6. B
7. D
8. B
9. B
10. A
11. D
12. A
13. D
14. B
15. B
16. C
17. A
18. D
19. A
20. B
21. C
22. D
23. B
24. B
25. A