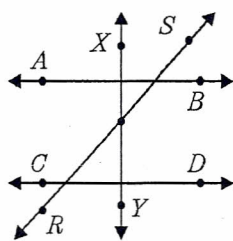


Proficiency Practice

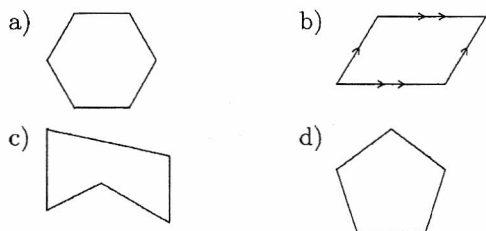
Geometry

1. In the figure shown, which lines appear parallel?

- a) \overleftrightarrow{AB} and \overleftrightarrow{RS}
 b) \overleftrightarrow{AB} and \overleftrightarrow{CD}
 c) \overleftrightarrow{AB} and \overleftrightarrow{XY}
 d) \overleftrightarrow{CD} and \overleftrightarrow{BD}

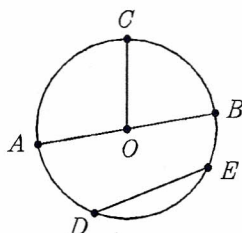


2. Which figure shown is a parallelogram?



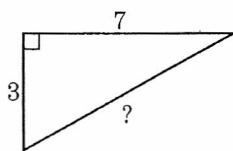
3. Name an arc of circle O .

- a) \overline{CO} b) \widehat{CO}
 c) \widehat{AC} d) \widehat{AOB}



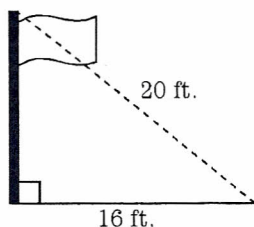
4. What is the length of the unmeasured side of this triangle?

- a) $3^2 + 7^2$
 b) $\frac{3^2 + 7^2}{2}$
 c) $\sqrt{3 + 7}$
 d) $\sqrt{3^2 + 7^2}$



5. A flagpole casts a shadow that is 16 feet long. How tall is the flagpole?

- a) 144 ft b) 36 ft
 c) 12 ft d) 9 ft

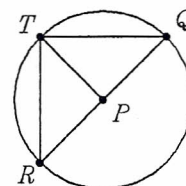


6. A flagpole casts a shadow that is 16 feet long. How tall is the flagpole?

- a) 144 ft b) 36 ft c) 12 ft d) 9 ft

7. If the diameter of circle P has measure 11.8 cm, then $RP = \underline{\hspace{1cm}}$.

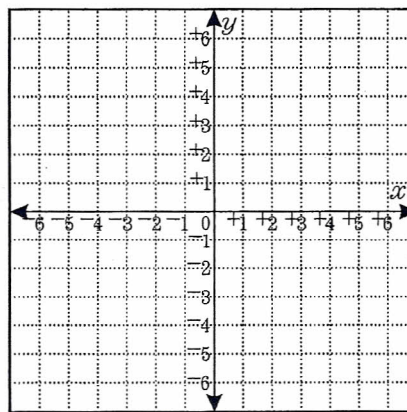
- a) 5.4 cm b) 5.9 cm
 c) 11.8 cm d) 23.6 cm



8. In an isosceles triangle the legs are 3.8 cm. Determine the length of the base if the perimeter is 13 cm.

- a) 5.4 cm b) 7.7 cm c) 9.2 cm d) 16.8 cm

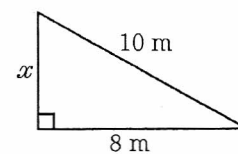
9. Which set of coordinates will provide the vertices for a translation of triangle ABC 4 units to the right?



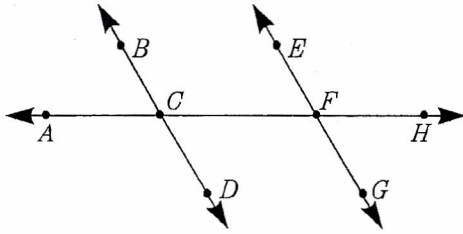
- a) $A(-3, 3), B(-1, 2), C(0, 5)$
 b) $A(1, 2), B(3, 2), C(3, 5)$
 c) $A(3, 2), B(1, 2), C(1, 5)$
 d) $A(-1, 4), B(-1, 2), C(2, 2)$

10. What is x ?

- a) 2 m b) 6 m
 c) 18 m d) 35 m

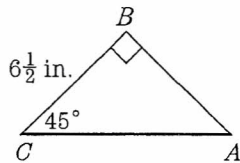


11. In the figure, $BD \parallel EG$ and $\angle CFE = 65^\circ$. What is the measurement of $\angle ACD$?



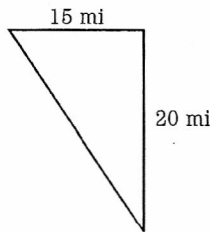
- a) 35° b) 65° c) 115° d) 135°
12. What is the length of \overline{AB} ?

- a) $3\frac{1}{4}$ inches
 b) $6\frac{1}{2}$ inches
 c) 8 inches
 d) 13 inches



13. To get to work, Colette drives 20 miles north, turns and drives 15 miles west. If she could drive in a straight line, how many miles could she save?

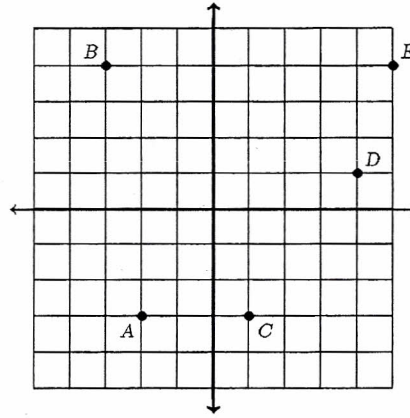
- a) 5 mi b) 10 mi
 c) 15 mi d) 25 mi



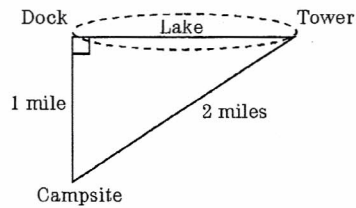
14. Find the equation of a line through the coordinate $(4, -3)$ and parallel to the line $y = \frac{1}{3}x - 3$.

- a) $y = \frac{1}{3}x - 3$ b) $y = \frac{1}{3}x - \frac{13}{3}$
 c) $y = -3x + 9$ d) $y = -3x + 4$

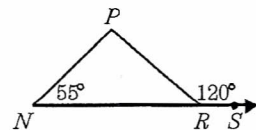
15. Graph the equation $y = \frac{1}{2}x - 2$. Which of the following points lie on the graph?



- a) A b) B c) C d) D
16. A surveyor determined the distance between the dock and the tower. Which is the closest estimate of that distance?

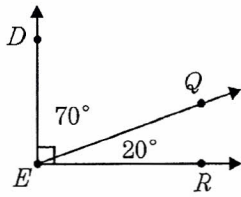


- a) 1.3 miles b) 1.7 miles
 c) 3.0 miles d) 9.0 miles
17. The circumference of a glass is 20 centimeters. What is the diameter?
- a) $\frac{20}{\pi}$ cm b) $\frac{10}{\pi}$ cm c) 20π cm d) 40π cm
18. Jarel has a rectangular piece of carpet which measures 3 ft by 10 ft. He needs to cut the large piece into small rectangular pieces which measure 1 ft by 2 ft. What is the maximum number of small pieces Jarel can cut from the large piece of carpet?
- a) 13 b) 15 c) 26 d) 30
19. Given $m\angle PRS = 120^\circ$ and the of $m\angle PNR = 55^\circ$, find the measure of $\angle NPR$.



- a) 60° b) 50°
 c) 65° d) 120°

20. Which statement is *true* about the figure shown?



- a) A 70° angle is obtuse.
- b) \overrightarrow{ED} is perpendicular to \overrightarrow{ER}
- c) \overrightarrow{EQ} is perpendicular to \overrightarrow{ER}
- d) $m\angle DER = 180^\circ$

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Proficiency Practice Geometry 10/6/2005

Answer List

- | | | |
|-------|-------|-------|
| 1. b | 2. b | 3. c |
| 4. d | 5. c | 6. c |
| 7. b | 8. a | 9. b |
| 10. b | 11. c | 12. b |
| 13. b | 14. b | 15. a |
| 16. b | 17. a | 18. b |
| 19. c | 20. b | |

Catalog List

- | | | |
|---------------|---------------|---------------|
| 1. OH1 CA 61 | 2. OH1 CA 83 | 3. OH1 CA 96 |
| 4. NC5 CB 2 | 5. NC5 CB 36 | 6. NC5 CB 36 |
| 7. OH1 CA 103 | 8. OH1 CB 16 | 9. NC5 CB 19 |
| 10. NC5 CB 3 | 11. NC5 BB 10 | 12. NC5 AB 34 |
| 13. CA1 BI 80 | 14. CA1 CH 16 | 15. NV1 NC 10 |
| 16. NC5 CA 23 | 17. NC5 CB 32 | 18. NC5 CB 33 |
| 19. CA1 AG 43 | 20. | |