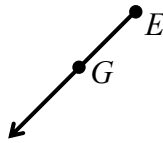


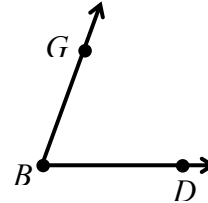
Review for Chapter Nine Exam

Identify each figure as a line, a ray, a line segment, or an angle. Then name the figure using the given points.

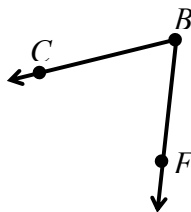
1.



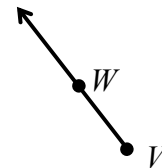
2.



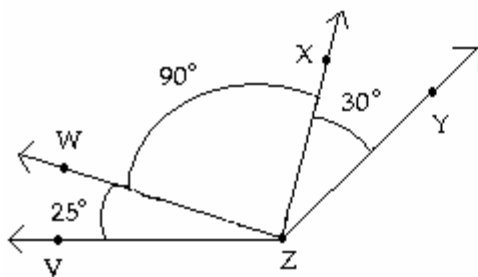
3.



4.

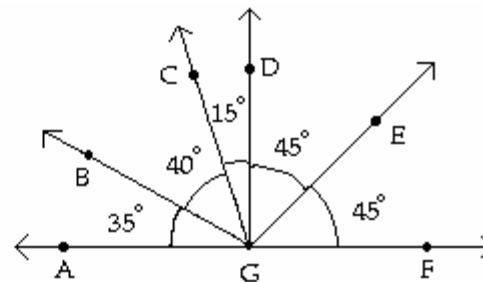


Find the measure of the angle.



5. $\angle BGC$

6. $\angle VZW$

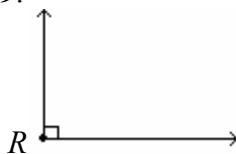


7. $\angle EGB$

8. $\angle BGE$

Classify each angle as acute, right, obtuse, or straight.

9.



10. 70°

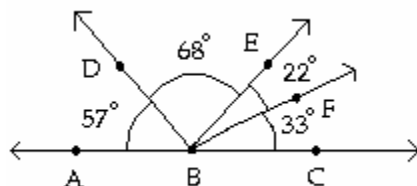
11. The measure of an obtuse angle is _____.

Find the indicated angle.

12. Find the complement of 49°

13. Find the supplement of 16°

14. Identify the pair or pairs of complementary angles.

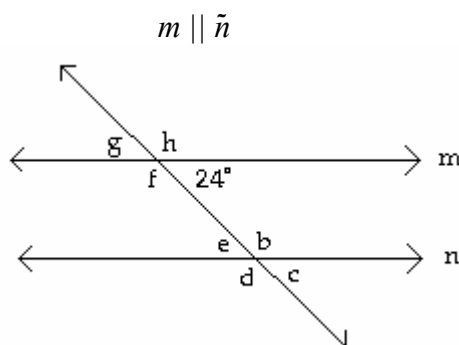


Find the measure of the unknown angles. Figures are not drawn to scale.

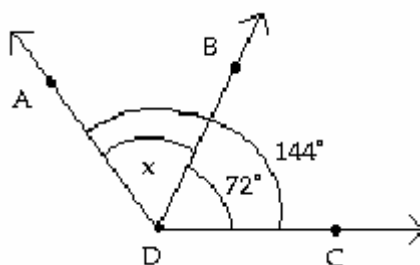
15. Find the measure of $\angle x$.



16. Find the measure of $\angle h$.



17. Find the measure of $\angle x$.

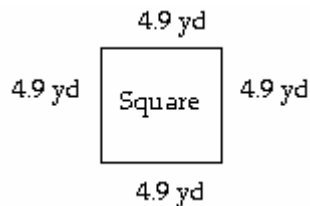


Convert as indicated.

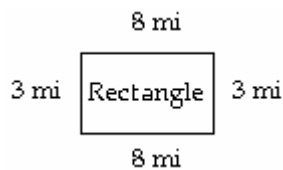
- | | | |
|-----------------------------|-------------------------------|----------------------------------|
| 18. 192 inches to feet | 19. 40 km to meters | 20. 20 yards to feet |
| 21. 9.7 miles to feet | 22. 95.7 dm to meters | 23. 138 oz to pounds |
| 24. 251.3 cm to millimeters | 25. 37 tons to pounds | 26. 59 kg to grams |
| 27. 6.5 lb to ounces | 28. 118 kg to grams | 29. 45 qt to gallons |
| 30. 351 g to milligrams | 31. $7\frac{1}{2}$ pt to cups | 32. $2\frac{1}{2}$ gal to quarts |
| 33. 380 L to centiliter | 34. 8800 ml to liters | 35. 89 ml to deciliter |

Find the perimeter of each figure.

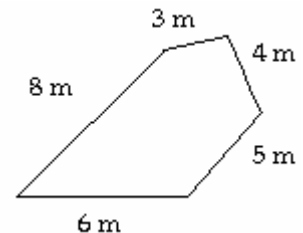
36.



37.



38.

**Solve.**

39. The sides of a triangle are 881 ft, 411 ft, and 652 ft. Find its perimeter.
40. A regular octagon has a side length of 7 m. Find its perimeter.
41. A rectangular room measures 12 ft by 13 ft. Find the cost of installing a strip of wallpaper around the room if the wallpaper costs \$0.52 per foot.

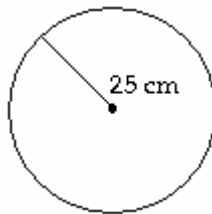
Find the circumference of each circle.

42.



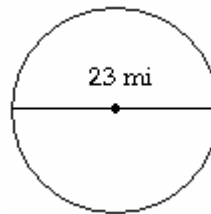
Approximate the circumference using $\pi = 3.14$.

43.



Find exact circumference.

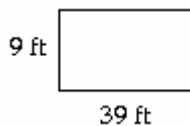
44.



Approximate the circumference using $\pi = 3.14$.

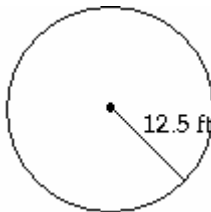
Find the area.

45. Find the area of the rectangle.



46. Find the area of a circle when its circumference is 17.2π units.

47. Find the area of the circle. Use 3.14 for π . Round results to two decimal places if necessary.

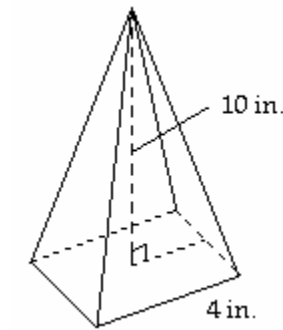


Solve.

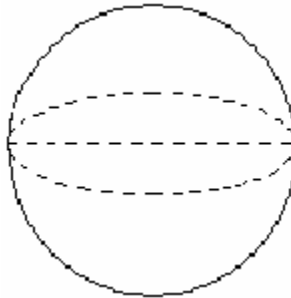
48. A drapery panel measures 6 ft by 9 ft. Find the number of square feet of material needed for four panels.

Find the volume of the solid.

49. Square-based pyramid

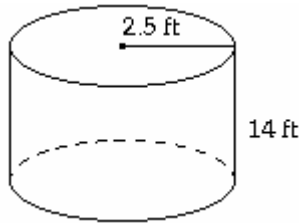


50. Use 3.14 as the approximate value for π . Round results to the nearest hundredth if necessary.



Sphere with diameter of 2.1 units

51. Use 3.14 as the approximate value for π . Round results to the nearest tenth, if necessary.



Solve the problem.

52. Find the volume of a box in the shape of a cube that is 8 inches on each side.

53. Find the volume of a box 3 in. x 7 in. x 9 in.

54. A paperweight is in the shape of a square-based pyramid 14 centimeters tall. If an edge of the base is 7 centimeters, find the volume of the pyramid.

Review for Chapter Nine Exam

ANSWERS

1. ray; \overrightarrow{EG} 2. angle; $\angle B$ 3. angle; $\angle B$ 4. ray; \overrightarrow{VW} 5. 40° 6. 25° 7. 100° 8. 100°
9. Right 10. Acute 11. between 90° and 180° 12. 41° 13. 164°
14. $\angle ABD$ and $\angle FBC$; $\angle DBE$ and $\angle EBF$ 15. 42° 16. 156° 17. 72° 18. 16 19. 40,000 m
20. 60 21. 51,216 22. 9.57 m 23. $8\frac{5}{8}$ lb 24. 2,513 mm 25. 74,000 lb 26. 59,000 grams
27. 104 oz 28. 118,000 grams 29. $11\frac{1}{4}$ gal 30. 351,000 milligrams 31. 15 c 32. 10 qt
33. 38,000 cl 34. 8.8 L 35. 0.89 dl 36. 19.6 yd 37. 22 mi 38. 26 m 39. 1,944 ft 40. 56 m
41. \$26.00 42. 452.16 mi 43. 50π cm 44. 72.22 mi 45. 351 sq. ft 46. 73.96π sq. units
47. 490.63 ft^2 48. 216 sq. ft 49. $53\frac{1}{3}$ cu. in. 50. 4.85 cu. units 51. 274.8 cu. ft 52. 512 cu. in.
53. 189 cu. in. 54. $228\frac{2}{3}$ cu. cm