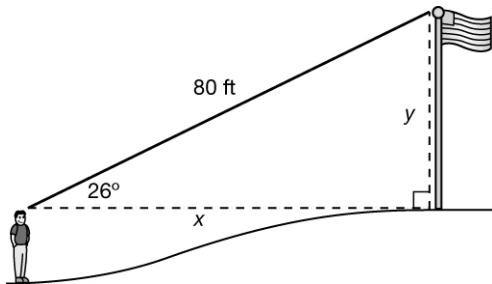


11. (73) In the diagram below, use the angle of elevation between the flag and the person to find the horizontal distance between the flag and the person, and the height of the flag.

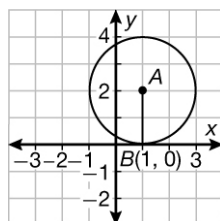


12. (70) Calculate the surface area of a regular hexagonal pyramid with a slant height of 9 meters and a base side length of 4 meters.

13. (37) Write the equation of a line that is perpendicular to $y = \frac{4}{5}x$ and passes through the point (12, 10).

14. (59) Find the volume of a right prism where the base is a 4-foot-by-6-foot rectangle and the height is 3 feet.

15. (75) In the diagram below, if B is a point on $\odot A$, write the equation of $\odot A$.

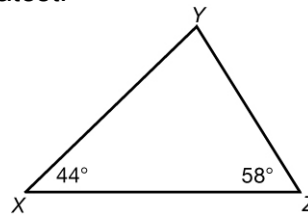


16. (57) Find the perimeter of rectangle $EFGH$ with coordinates $E(-1, 4)$, $F(6, 4)$, $G(6, -1)$, and $H(-1, -1)$.

17. (53) Find the perimeter of the triangle shown below.



18. (39) Order the sides of $\triangle XYZ$ from least to greatest.



19. (51) The perimeter of $\triangle ABC$ is 24 inches, and $\angle A \cong \angle B$. If $\overline{AB} = 10$ inches, determine the length of segment AC .

20. (74) In the diagram below, reflect $\triangle DEF$ across the y -axis. Find the coordinates of the vertices of the reflected image and write the transformation in mapping notation.

