Q4HW2 - All work on looseleaf.

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Date_____ Period____

Use the information provided to write the equation of each circle.

- 1) Ends of a diameter: (2, 10) and (-8, -5)
- 2) Ends of a diameter: (7, -4) and (-7, -13)

Write the slope-intercept form of the equation of the line described.

3) through:
$$(4, -1)$$
, parallel to $y = -\frac{1}{8}x - 4$

4) through: (1, 1), perp. to y = 3x - 2

Find the area of each regular polygon. Round your answer to the nearest tenth if necessary.

Find the surface area of each figure. Round your answers to the nearest thousandth, if necessary.

- 7) A hexagonal prism 11 km tall with a regular base measuring 8 km on each edge and an apothem of length 6.9 km.
- 8) A cylinder with a diameter of 8 yd and a height of 12 yd.

Find the volume of each figure. Round your answers to the nearest thousandth, if necessary.

- 9) A square prism measuring 3 m along each edge of the base and 2 m tall.
- 10) A trapezoidal prism of height 6 ft. The parallel sides of the base have lengths 7 ft and 3 ft. The other sides of the base are each 4 ft. The trapezoid's altitude measures 3.5 ft.
- 11) A hexagonal prism 11 ft tall with a regular base measuring 11 ft on each edge and an apothem of length 9.5 ft.
- 12) A prism 2 m tall with a right triangle for a base with side lengths 3 m, 4 m, and 5 m.
- 13) A cylinder with a radius of 6 cm and a height of 4 cm.
- 14) A pentagonal prism 11 ft tall with a regular base measuring 10 ft on each edge and an apothem of length 6.9 ft.
- 15) A hexagonal prism 4 cm tall with a regular base measuring 12 cm on each edge and an apothem of length 10.4 cm.
- 16) A hexagonal prism 11 in tall with a regular base measuring 7 in on each edge and an apothem of length 6.1 in.