

Homework

p. 30: 5, 19-20, 25-26

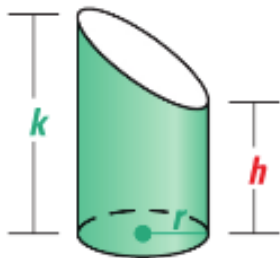
REWRITING FORMULAS Solve the formula for the indicated variable. Then use the given information to find the value of the variable.

5. Solve $A = \frac{1}{2}(b_1 + b_2)h$ for h . Then find the height of a trapezoid with bases of lengths 10 centimeters and 15 centimeters and an area of 75 square centimeters.

GEOMETRY Solve the formula for the variable in red. Then use the given information to find the value of the variable. Round to the nearest tenth.

19. Lateral surface area of a truncated cylinder

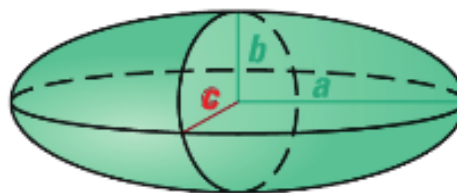
$$S = \pi r(\textcolor{red}{h} + k)$$



Find h if $r = 2$ cm,
 $k = 3$ cm, and $S = 50$ cm².

20. Volume of an ellipsoid

$$V = \frac{4}{3}\pi ab\textcolor{red}{c}$$



Find c if $a = 4$ in.,
 $b = 3$ in., and $V = 60$ in.³

REWRITING EQUATIONS Solve the equation for y . Then find the value of y for the given value of x .

25. $y - 2xy = 15$; $x = -1$

26. $4x + 7y + 5xy = 0$; $x = 1$