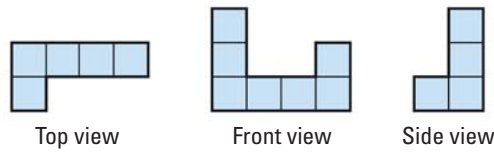


REVIEW

TAKS Preparation
p. 228;
TAKS Workbook

30. **TAKS PRACTICE** The top, front, and side views of a solid built with cubes are shown below. How many cubes are needed to construct this solid?
TAKS Obj. 7

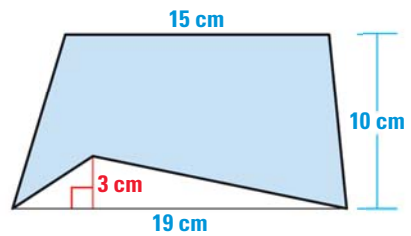


- (A) 7 (B) 8 (C) 9 (D) 10

REVIEW

TAKS Preparation
p. 470;
TAKS Workbook

31. **TAKS PRACTICE** What is the area of the blue figure shown at the right? *TAKS Obj. 8*



- (F) 48.5 cm² (G) 113.0 cm²
(H) 141.5 cm² (J) 283.0 cm²

QUIZ for Lessons 14.3–14.5

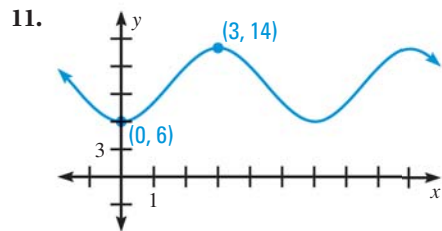
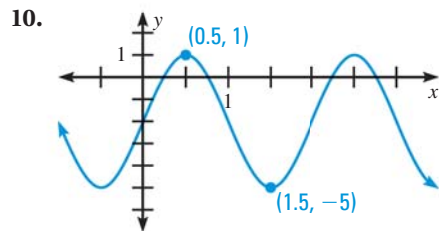
Simplify the expression. (p. 924)

1. $\sin x \sec x$ 2. $\sin \theta (1 + \cot^2 \theta)$ 3. $\tan\left(\frac{\pi}{2} - \theta\right) \cot \theta - \csc^2 \theta$
4. $\cos^2 \theta + \sin^2 \theta + \tan^2 \theta$ 5. $\frac{\tan\left(\frac{\pi}{2} - x\right) \sec x}{1 - \csc^2 x}$ 6. $\frac{\sin(-x)}{\csc x} + \frac{\cos(-x)}{\sec x}$

Find the general solution of the equation. (p. 931)

7. $\cos x + \cos(-x) = 1$ 8. $\sqrt{2} \cos x \sin x - \cos x = 0$ 9. $2 \sin^2 x - \sin x = 1$

Write a function for the sinusoid. (p. 941)



12. **DAILY TEMPERATURES** The table below shows the average daily temperature D (in degrees Fahrenheit) in Detroit, Michigan. The time t is measured in months, with $t = 1$ representing January. Use a graphing calculator to write a sinusoidal model that gives D as a function of t . (p. 941)

t	1	2	3	4	5	6	7	8	9	10	11	12
D	24.5	27.2	36.9	48.1	59.8	69	73.5	71.8	63.9	51.9	40.7	29.6