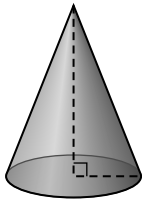


**Warm Up 93**

1. cube
2. 12 edges, 8 vertices,  
6 faces

3.



4. right rectangular  
pyramid

**Lesson Practice 93**

a.



Front



Side



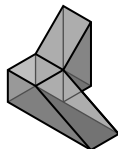
Top

b. A

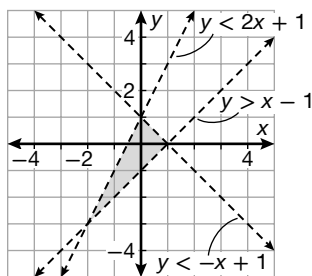
c. B

## Practice 93

1.



2.



3. 0.49

4.  $212.1 \text{ cm}^3$ 5.  $S = 226 \text{ in}^2$ 

6. D

7. 2:7

8. Any point could be moved to make a parallelogram. Three points define two lines of the parallelogram, and the fourth point will define the other 2 lines, so it determines whether or not there are two parallel pairs.

9. D

10.  $KL = 3.2$ ,  $LM = 6.3$ ,  
 $KM = 7.1$ ;  $\angle K = 63^\circ$ ,  
 $\angle M = 27^\circ$ ,  $\angle L = 90^\circ$

11.  $90^\circ$ 

12. D

13.  $\triangle AGK \cong \triangle OJV$ 

14. The distances  $PQ$  and  $BR$  are equal, as are the distances  $PB$  and  $QR$ . She will be traveling the same distance.

15. (3, 5)

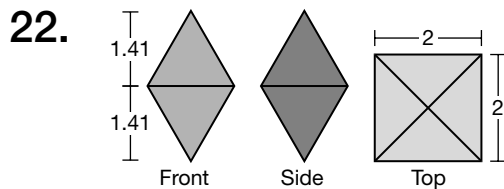
16.  $A = 37 \text{ m}^2$ 17.  $380.13 \text{ m}^2$ 

18. equilateral triangle

19. slopes of  $\overline{UV}$ ,  $\overline{VW}$ ,  $\overline{WX}$  are  $\frac{1}{2}$ ,  $-3$ ,  $\frac{1}{2}$ , and  $-3$ ;  $\overline{UV} \parallel \overline{WX}$  and  $\overline{VW} \parallel \overline{UX}$ , so  $UVWX$  is a parallelogram;  
 $UV = 2\sqrt{5} = WX$   
 and  $VW = \sqrt{10} = UX$ ;  
 $\overline{UV} \cong \overline{WX}$  and  $\overline{VW} \cong \overline{UX}$ , so  $UVWX$  is a parallelogram.

20.  $b = -7$

21.  $QR = 8$  in.;  $DE = 5$  in.;  
 $EF = 7$  in.



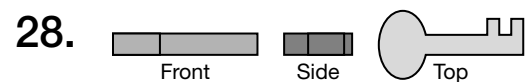
23.  $6 \text{ m/s}^2$  down and  $8 \text{ m/s}^2$  to the left, or  $\langle -6, -8 \rangle$  with positive  $y$  as up and positive  $x$  as right.

24.  $3(x + 2) = (6 - x)(5)$ ;  
 $x = 3$

25. 24

26.  $MP$  and  $NO$  are 5 and  $NM$  and  $OP$  are  $\sqrt{5}$ ;  $\overline{MN} \cong \overline{OP}$  and  $\overline{NO} \cong \overline{MP}$ , so  $MNOP$  is a parallelogram.

27.  $\cos \theta = \frac{1}{\sqrt{1 + \tan^2 \theta}}$



29.  $\langle 3.83, -43.83 \rangle$

30. 7.5