

## Unit 1 Review Answers

### Chapter 1 Vocab

1. D
2. A
3. S
4. L
5. K
6. V
7. E
8. C
9. J
10. Q
11. G
12. N
13. F
14. O
15. U
16. I
17. H
18. R
19. T
20. M
21. B
22. P

### Chapter 1 Review Problems

- P. 19: 21.  $c = 18, YZ = 72$   
23.  $a = 4, YZ = 20$   
25.  $n = 4\frac{1}{3}$  or  $\frac{13}{3}, YZ = 1\frac{2}{3}$  or  $\frac{5}{3}$
- p. 30: 3.  $\sqrt{148}$  or 12.2  
4.  $\sqrt{106}$  or 10.3  
5.  $\sqrt{58}$  or 7.6  
9. (4, -5.5)  
10. (5.5, 0)
- P. 41: 9. 156  
10. 98
- P. 81: 14. 12
- p. 82: 2. G
- p. 84: 7. A
- p. 85: 13. 41

### Definitions and Formulas:

Distance Formula  $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Midpoint Formula  $(\frac{x_2+x_1}{2}, \frac{y_2+y_1}{2})$

Parallel lines coplanar lines that do not intersect

Parallel Planes planes that do not intersect

Skew Lines lines that do not intersect and are not coplanar

Transversal a line that intersects two or more lines in a plane at different points

Slope Formula  $\frac{y_2-y_1}{x_2-x_1}$

### Chapter 3 Review Problems

1. Plane  $EFG$
  2.  $\overline{AD}$  or  $\overline{DF}$
  3.  $\overline{FG}, \overline{AD},$  and  $\overline{BC}$
  4. transversal:  $s$ , Alternate Interior
  5. transversal:  $p$ , Alternate Exterior
  6. transversal:  $t$ , Consecutive Interior
  7. transversal:  $s$ , Corresponding
  8.  $104^\circ$
  9.  $62^\circ$
  10.  $118^\circ$
  11.  $76^\circ$
  12. 125
  13. 128
  14. 9
  15.  $j \parallel k$ ; Corresponding  $\angle$ 's  $\cong$
  16.  $j \parallel k$ ; Alt Int  $\angle$ 's  $\cong$
  17.  $l \parallel m$ ; Alt Ext  $\angle$ 's  $\cong$
  18.  $l \parallel m$ ; Consec. Int  $\angle$ 's Supplementary
  19.  $-\frac{1}{5}$
  20. Undefined
  21. Parallel
  22. Perpendicular
- (see answers tomorrow for graphs of 21 and 22)