#### PROBLEM SET A

1. 
$$y + 65 = 180$$
  
 $y = 180 - 65 = 115$ 

2. 
$$x + 40 = 90$$
  
 $x = 90 - 40 = 50$ 

Since vertical angles are equal, y = 89

$$p = 91$$

Since vertical angles are equal,

$$2x = 80$$

$$x = 40$$

$$4y = 100$$

$$y = 25$$

7. 
$$-2 - (-2) = -2 + 2 = 0$$

8. 
$$-3 - [-(-2)] = -3 - 2 = -5$$

10. 
$$-[-2(-5 + 2) - (-2 - 3)]$$
  
=  $-[-2(-3) - (-5)]$   
=  $-[6 + 5] = -11$ 

11. 
$$-2 + (-2)^3 = -2 + (-8)$$
  
=  $-2 - 8 = -10$ 

12. 
$$-3^2 - 3 - (-3)^2$$
  
=  $-9 - 3 - 9 = -21$ 

13. 
$$-3(-2 - 3 + 6) - [-5(-2) + 3(-2 - 4)]$$
  
=  $-3(1) - [-5(-2) + 3(-6)]$   
=  $-3 - [10 - 18] = -3 - [-8] = 5$ 

14. 
$$-2 - 2^2 - 2^3 - 2^4$$
  
=  $-2 - 4 - 3 - 16 = -30$ 

15. 
$$|-2| - |-4 - 2| + |8| = |-2| - |-6| + |8|$$
  
= 2 - 6 + 8 = 4

17. 
$$-2^2 - 2^3 - |-2| - 2 = -4 - 8 - 2 - 2$$
  
= -16

18. 
$$-3[-1 - 2(-1 - 1)][-3(-2) - 1]$$
  
=  $-3[-1 - 2(-2)][6 - 1] = -3[-1 + 4][6 - 1]$   
=  $-3[3][5] = -45$ 

19. 
$$-3[-3(-4 - 1) - (-3 - 4)]$$
  
=  $-3[-3(-5) - (-7)]$   
=  $-3[15 + 7] = -3[22] = -66$ 

20. 
$$-2[(-3 + 1) - (-2 - 2)(-1 + 3)]$$
  
=  $-2[(-2) - (-4)(2)] = -2[-2 + 8]$   
=  $-2[6] = -12$ 

21. 
$$-2[-2(-4) - 2^3](-|2|) = -2(8 - 8)(-2)$$
  
=  $-2[0](-2) = 0$ 

22. 
$$-8 - 3^2 - (-2)^2 - 3(-2) + 2$$
  
=  $-8 - 9 - 4 + 6 + 2 = -13$ 

23. 
$$-\{-\{-5(-3 + 2)7\}\} = -\{-\{-5(-1)7\}\}$$
  
=  $-\{-\{351\} = 35$ 

24. 
$$-5 - |-3 - 4| - (3)^2 - 3$$
  
=  $-5 - |-7| - 9 - 3$   
=  $-5 - 7 - 9 - 3 \approx -24$ 

25. 
$$3(-2 + 5) - 2^{2}(2 - 3) - [-2]$$
  
=  $3(3) - 4(-1) - 2$   
=  $9 + 4 - 2 = 11$ 

# **Saxon Algebra 2 Third Edition Solution Manual**

**L Darling-Hammond** 

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