

## PROBLEM SET A

1.  $y + 65 = 180$   
 $y = 180 - 65 = 115$
2.  $x + 40 = 90$   
 $x = 90 - 40 = 50$
3.  $x + 89 = 180$   
 $x = 180 - 89$   
 $x = 91$   
Since vertical angles are equal,  
 $y = 89$   
 $p = 91$
4.  $z + 100 = 180$   
 $z = 180 - 100 = 80$   
Since vertical angles are equal,  
 $2x = 80$   
 $x = 40$   
 $4y = 100$   
 $y = 25$
5. Angle + Supplement =  $180^\circ$   
Angle +  $40^\circ = 180^\circ$   
Angle =  $180^\circ - 40^\circ$   
Angle =  $140^\circ$
6. Angle + Complement =  $90^\circ$   
Angle +  $40^\circ = 90^\circ$   
Angle =  $90^\circ - 40^\circ$   
Angle =  $50^\circ$
7.  $-2 - (-2) = -2 + 2 = 0$
8.  $-3 - [-(-2)] = -3 - 2 = -5$
9.  $-2 - 3(-2 - 2) = 5(-5 + 7)$   
 $= -2 - 3(-4) = 5(2)$   
 $= -2 - (-12) = (10)$   
 $= -2 + 12 = 10 = 0$
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.  $-2 - 2^2 - 2^3 - 2^4$   
 $= -2 - 4 - 8 - 16 = -30$
15.  $|-2| - |-4 - 2| + |8| = |-2| - |-6| + |8|$   
 $= 2 - 6 + 8 = 4$
16.  $-[-3(2) - 3] - 2^2 = -|-6 - 3| - 4$   
 $= -[-9] - 4 = -9 - 4 = -13$
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.  $-8 - 3^2 - (-2)^2 - 3(-3) + 2$   
 $= -8 - 9 - 4 + 6 + 2 = -13$
23.  $-[-[-5(-3 + 2)7]] = -[-[-5(-1)7]]$   
 $= -[-[35]] = 35$
24.  $-5 - |-3 - 4| - (3)^2 - 3$   
 $= -5 - |-7| - 9 - 3$   
 $= -5 - 7 - 9 - 3 = -24$
25.  $3(-2 + 5) - 2^2(2 - 3) - |-2|$   
 $= 3(3) - 4(-1) - 2$   
 $= 9 + 4 - 2 = 11$

# Answer To Saxon Algebra 2 Lesson 27

**Yicheng Fang**



**Answer To Saxon Algebra 2 Lesson 27:**

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