Name _____Date _____ Period_____

1. _____ Identify the plane parallel to plane ACE.
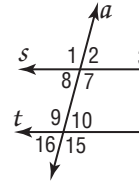   **A** plane ABG **C** plane EFK
   B plane BCH **D** plane GJF
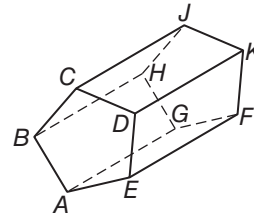
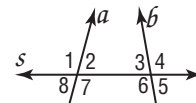2. _____ Given $s \parallel t$ and $m\angle 1 = 8x - 4$ and $m\angle 15 = 6x + 24$, find the value of x.
   F −10   **G** 14   **H** 20   **J** 28

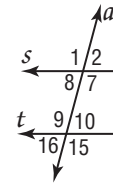3. _____ Identify the special angel name:

   $\angle 1$ and $\angle 5$
   A alternate exterior   **C** consecutive interior
   B alternate interior   **D** corresponding

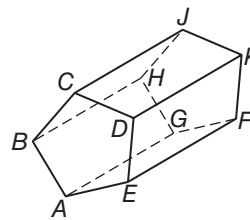4. _____ Given $s \parallel t$ and $m\angle 7 = 84$, find $m\angle 10$.
   A 6   **B** 84   **C** 96   **D** 104
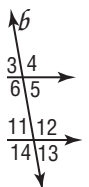
5. _____ Which segment is skew to $\overline{JK}$?
   F $\overline{AB}$ **H** $\overline{JH}$
   G $\overline{CD}$ **J** $\overline{GF}$
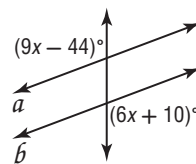
6. _____ If $m\angle 6 = 10x - 6$ and $m\angle 11 = 4x + 18$, find the value of x so that $s \parallel t$.
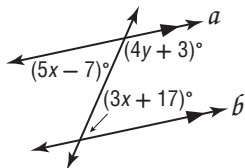   **F** 2   **G** 4   **H** 12   **J** 32

7. _____ Find the value of x so that $a \parallel b$

   $(9x - 44)°$
   a
   $(6x + 10)°$
   b

A 1

8. _____ Determine the slope of the line that contains:

   $C(1, -7), D(5, 13)$

9. _____ Determine the slope of the line that contains:

   $Y(-7, -4), Z(5, 2)$

10. _____ Which is an equation of the line containing $(-3, 13)$ and $(6, -5)$?

   A $y = 2x - 7$ **B** $y = -2x + 12$ **C** $y = -2x + 17$ **D** $y = -2x + 7$

11. _____ Find the value of x in the figure.

12. _____ Determine the slope of the line that passes through the points:

   $G(-6, 14), L(-3, 9)$

13. _____ Determine whether $\overleftrightarrow{CS}$ and $\overleftrightarrow{KP}$ are parallel, perpendicular, or neither.

   $C(-5, 6), S(-3, 2), K(-2, 10), P(1, 4)$

14. _____ Mrs. Ekeledo writes computer manuals. She charges $125 to review writing specifications plus $50 per hour, h, to write the manual. Which equation represents the total fee F that Mrs. Ekeledo earns for writing each computer manual?

   F $F = 50(h + 125)$ **H** $F + 125 = 50h$

   G $F = 50h + 125$ **J** $50F = h + 125$ _____