Date: Period:

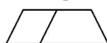
Chapter 1-2 Review

Find the next two terms in each sequence.

 $12, 17, 22, 27, 32, \dots$ **2.** $5000, 1000, 200, 40, \dots$ **3.** $1, 4, 9, 16, 25, \dots$ **4.** $1, 12, 123, 1234, \dots$

Draw the next figure in each sequence.









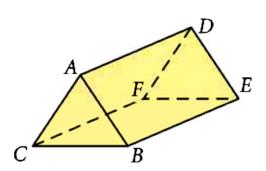






Write true or false.

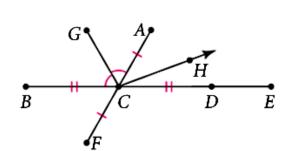
- A, D, F are coplanar.
- \overrightarrow{AC} and \overrightarrow{FE} are coplanar.
- \overrightarrow{BC} and \overrightarrow{DF} are skew lines.
- A, B, E are coplanar.
- D, A, B, E are coplanar.
- 12. $\overrightarrow{FC} \parallel \overrightarrow{EF}$



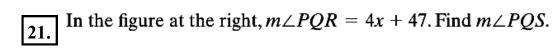
- $\overrightarrow{DE} \parallel \overrightarrow{CF}$
- \overrightarrow{AD} and \overrightarrow{EB} are skew lines.
- plane $ABC \parallel$ plane FDE
- \overline{AB} and \overline{CD} do not intersect but \overline{DC} intersects \overline{AB} in one point. Make a sketch that shows this.

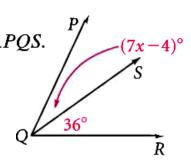
Use the figure at the right

- 17. If BC = 12 and CE = 15, then $BE = \blacksquare$.
- 18. \blacksquare is the angle bisector of \blacksquare .

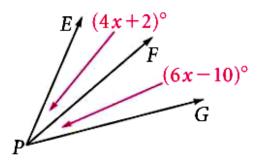


- 19. BC = 3x + 2 and CD = 5x 10. Solve for x.
- $m \angle ACD = 60$ and $m \angle DCH = 20$. Find $m \angle HCA$.

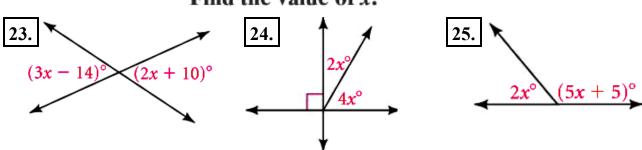




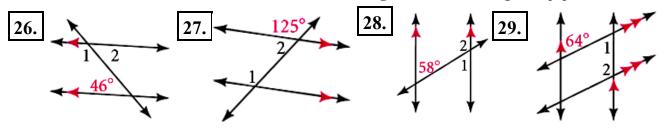
Solve for x. Show your work. Justify each step. Given: \overrightarrow{PF} bisects $\angle 1$.



Find the value of x.



Find $m \angle 1$ and then $m \angle 2$. State the theorems or postulates that justify your answers.



Find the value of each variable.

