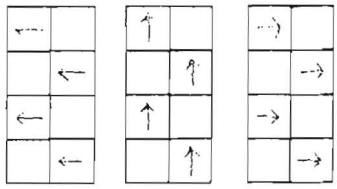
Extra Practice 1.1, 1.2, 1.3 Name _____

Sketch the next figure in the pattern.



Describe a pattern in the sequence of numbers. Predict the next number.

a) $2, -4, 8, -16, \ldots$

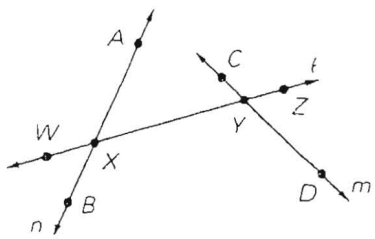
b) $\frac{5}{6}, \frac{4}{5}, \frac{3}{4}, \frac{2}{3}, \ldots$

show the conjecture is false by finding a counterexample.

If $m \neq -1$, then $\frac{m}{m+1} > 1$.

Decide whether the statement is *true* or *false*.

1. Point Y lies on line m
2. X, Y, and Z are collinear.
3. Point W lies on line m.
4. X, Y, and Z are coplanar.
5. $\overrightarrow{YW}$ and $\overrightarrow{YD}$ are collinear.
6. $\overrightarrow{YW}$ and $\overrightarrow{YD}$ are coplanar.
7. $\overrightarrow{YX}$ and $\overrightarrow{YZ}$ are collinear.
8. $\overrightarrow{YX}$ and $\overrightarrow{YZ}$ are coplanar.



Sketch the figure described.

Two rays that do not intersect.

A set of three lines that has two points of intersection

Draw a sketch of the three collinear points. Then write the Segment Addition Postulate for the points.

M is between P and R.

A is between B and C. D is between A and B. B is between D and E.
$EC = 32$, $EB = 11$, and $BD = DA = AC$. (draw a sketch to help)

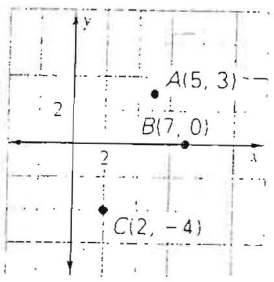
a) Find DA

b) Find ED.

Suppose M is between X and Y. Use the Segment Addition Postulate to solve for x. Then find the length of each segment.

$XM = 8x - 3$
$MY = 12x - 5$
$XY = 112$

Using the graph below, find AB, BC, and AC.



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