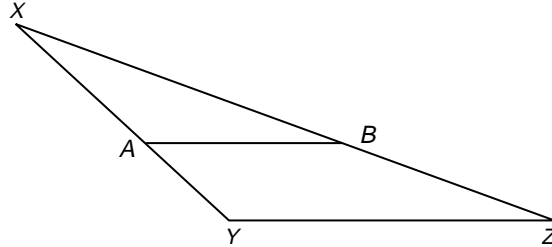


Practice

Parallel Lines and Proportional Parts

Refer to the figure at the right for Exercises 1-2. Determine whether it is always true that $\overline{AB} \parallel \overline{YZ}$ under the given conditions.

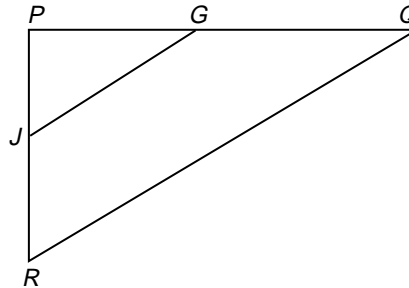
1. $XA = 6$
 $AY = 4$
 $XB = 8$
 $BZ = 5$



2. $XB = 3$
 $BZ = 2$
 $AB = 6$
 $YZ = 10$

In $\triangle PQR$, find x and y so that $\overline{JG} \parallel \overline{RQ}$.

3. $PJ = 6$
 $JG = 5$
 $PG = 4$
 $GQ = x$
 $RQ = x + 6$
 $JR = y$



4. $RQ = 10$
 $JG = 8$
 $PJ = 8x - 5$
 $JR = x$
 $PG = 3y + 2$
 $QG = y$

5. In the figure at the right, $\overline{YA} \parallel \overline{OE} \parallel \overline{BR}$. Find the values of x and y if $YO = 4$, $ER = 16$, and $AR = 24$.

