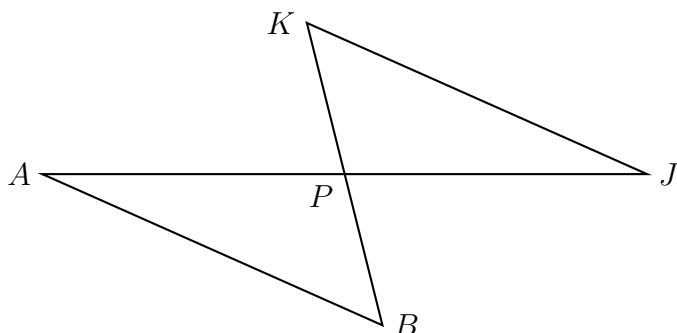


Name:

Do Now: Triangle congruence proofs

1. Given $\triangle ABP$ and $\triangle JKP$ with $\angle B \cong \angle K$. P bisects \overline{AJ} . Prove $\triangle ABP \cong \triangle JKP$.



Statement

Reason

1) $\triangle ABP, \triangle JKP$

1) Given

2) _____

2) Given

3) _____

3) Given

4) $\angle APB \cong \angle JPK$

4) _____

5) _____

5) Definition of a bisector

6) $\triangle ABP \cong \triangle JKP$

6) _____

2. $M(5, 5)$ is the midpoint of AB . Given $A(2, 3)$, find the other endpoint, B .

3. The line l has the equation $y = \frac{1}{2}x - 3$.

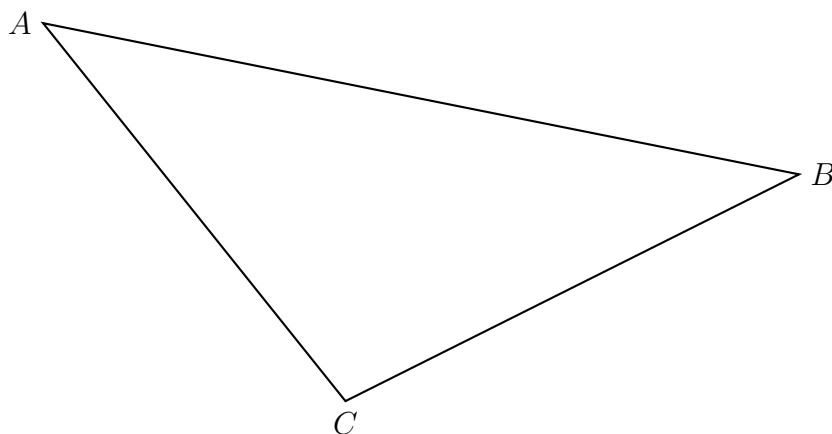
(a) What is the slope of the line k , given $k \parallel l$?

(b) What is the slope of the line m , given $m \perp l$?

4. A translation maps $A(5, 2) \rightarrow A'(-2, 3)$. What is the image of $B(-1, 5)$ under the same translation?

Early finishers

5. Using a compass and straightedge, construct the median to side \overline{AB} in $\triangle ABC$ below.
(Leave all construction marks.)



6. With a compass and straightedge, construct a square inscribed in circle Q . (Leave all construction marks.)

