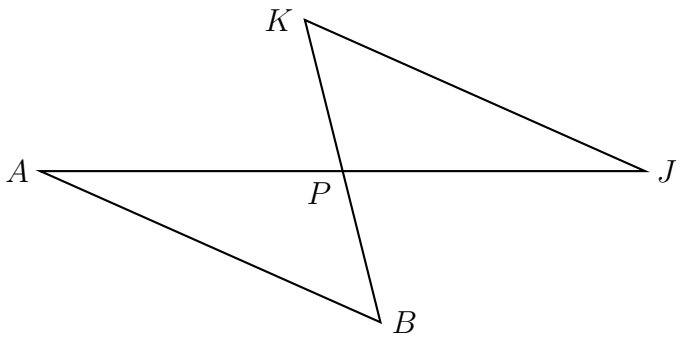
BECA / Dr. Huson / 10th Grade Geometry
7 December 2018 Name:

Do Now: Triangle congruence proofs

1. Given $\triangle ABP$ and $\triangle JKP$ with $\angle A \cong \angle J$. 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. Apply the translation $(x, y) \to (x - 1, y + 3)$ to the point $A(0, -4)$.

3. What is the image of $B(4, 3)$ under a reflection across the x-axis?

4. State the translation that would map $C(1, 5)$ onto $C'(4, 3)$.

5. Express the result to the nearest thousandth.

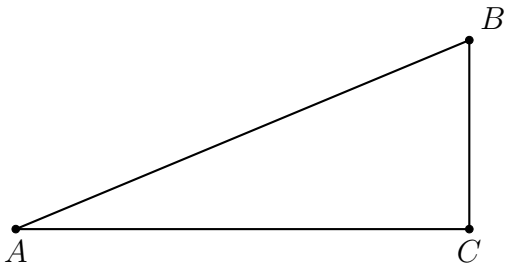
(a) $\sin 30° =$

(b) $\tan 45° =$

(c) $\sin 28° =$

(d) $\cos 25° =$

6. Given right $\triangle ABC$ with $AC = 12, BC = 5, AB = 13$, $m\angle C = 90°$. Express each trig ratio as a fraction.



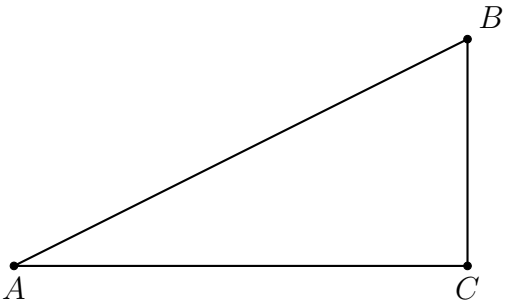
(a) $\sin A =$

(c) $\sin B =$

(b) $\cos A =$

(d) $\tan B =$

7. Given right $\triangle ABC$ with $m\angle C = 90°$, $m\angle A = 30°$, and $AB = 12$.



(a) Find AC.

(b) Find BC.

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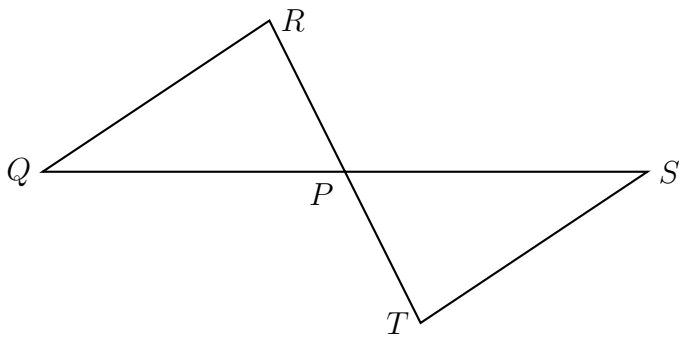
Exit Note: Triangle congruence proof & transformations assessment

1. Given $\triangle QRP$ and $\triangle STP$ with $\overline{QP} \cong \overline{SP}$. P is the midpoint $\overline{RT}$.
   Prove $\triangle QRP \cong \triangle STP$.



Statement	Reason
1) $\triangle QRP$, $\triangle STP$	1) Given
2) _____	2) Given
3) _____	3) Given
4) $\angle QPR \cong \angle SPT$	4) _____
5) _____	5) Definition of a midpoint
6) $\triangle QRP \cong \triangle STP$	6) _____

2. Apply the translation $(x, y) \to (x + 1, y + 6)$ to the point $A(-5, 3)$.

3. What is the image of $B(2, 5)$ under a reflection across the y-axis?

4. State the translation that would map $C(2, -3)$ onto $C'(5, -4)$.