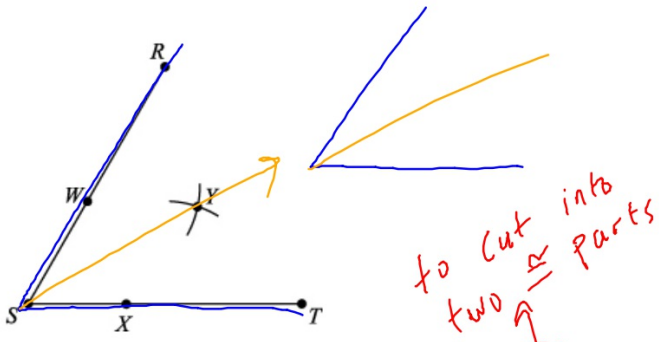
Commonly Missed Review from Micatime

Henry is bisecting $\angle RST$ and has created points W, X, and Y so that $\overline{SW} \cong \overline{SX}$ and $\overline{WY} \cong \overline{XY}$.



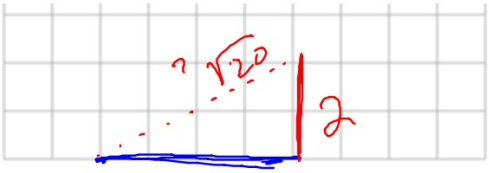
- S and Y
- R and T
- W and X
- X and Y

to cut into two ≅ parts

Which two points are on the ray that bisects $\angle RST$?

Use the grid to create a right triangle with a side length of 4 units and a perimeter of $(6+\sqrt{20})$ units.

total



$4^2 + 2^2 = c^2$

$16 + 4 = c^2$

$20 = c^2 \Rightarrow c = \sqrt{20}$

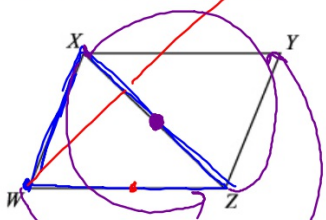
$4 + 2 + \_\_ = (6) + \sqrt{20}$

total of the 2 legs

$\sqrt{20} \approx 4.4\ldots$

Hypotenuse

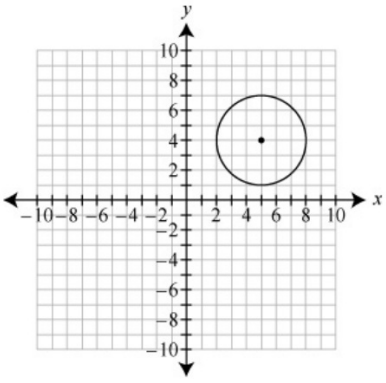
Parallelogram *WXYZ* is shown, including diagonal $\overline{XZ}$.



Which single, rigid motion could be applied to $\triangle WXZ$ in order to show that $\triangle WXZ \cong \triangle YZX$?

- reflection across $\overline{WZ}$
- reflection across $\overline{XZ}$
- rotation about the midpoint of $\overline{WZ}$
- rotation about the midpoint of $\overline{XZ}$

The circle shown has its center located at the point (5, 4).



(−5, 4)

(− 4, −5)

(4, 5)

(5, − 4)

$(x, y) \rightarrow (-y, -x)$

The circle is reflected over the line $y = -x$. What are the coordinates of the center of the image?