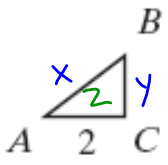
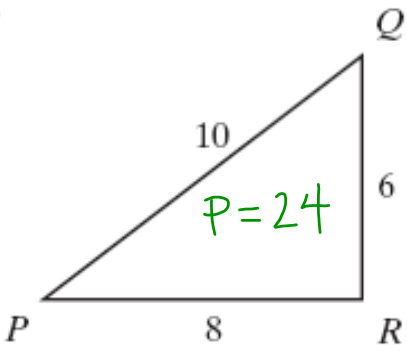
DO NOW

If $\Delta ABC \sim \Delta PQR$, what is the perimeter of ΔABC?





P = 6

$\frac{x}{10} = \frac{2}{8}$

$8x = 20$

$x = 2.5$

$\frac{y}{2} = \frac{6}{8}$

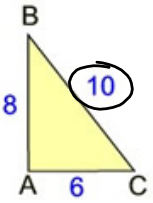
$8y = 12$

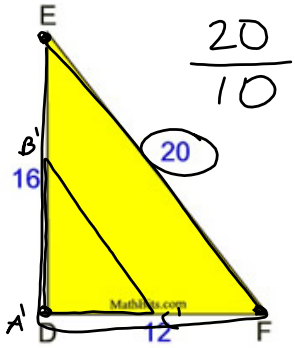
$y = 1.5$

Feb 18-10:30 AM

Two geometric figures are **similar** if there is a **similarity transformation** that will map one figure onto the other. This transformation is either a dilation alone or a dilation in combination with one or more rigid motions

To map ΔABC onto ΔDEF:
Translate ΔABC so that A maps to D
Then dilate $\Delta A'B'C'$ centered at D, scale factor $k = 2$.

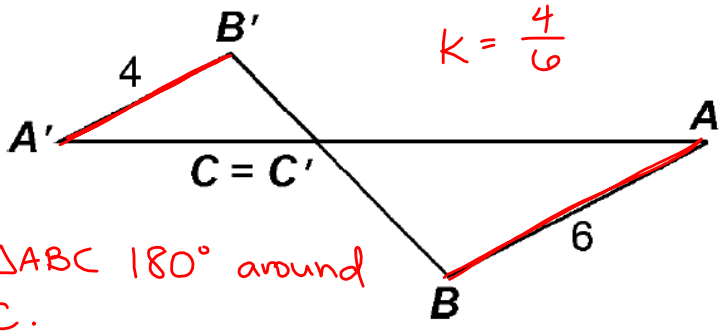




$\frac{20}{10}$

Dec 20-7:34 AM

In the following diagram, $\Delta ABC \sim \Delta A'B'C'$. Give a similarity transformation that would map ΔABC onto $\Delta A'B'C'$



$k = \frac{4}{6}$

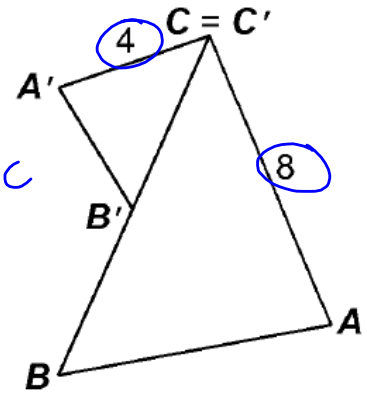
Rotate ΔABC 180° around point C.

Then dilate ΔABC centered at C using scale factor $k = \frac{2}{3}$

Jan 2-8:12 AM

In the following diagram, $\Delta ABC \sim \Delta A'B'C'$. Give a similarity transformation that would map ΔABC onto $\Delta A'B'C'$

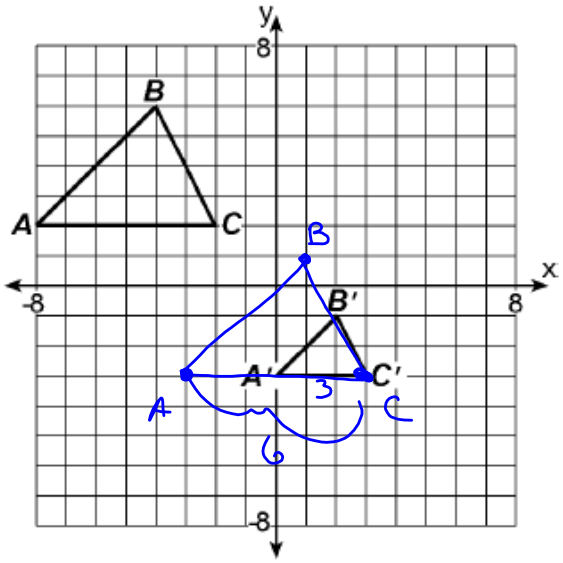
Reflect ΔABC over $\overline{BC}$ then dilate ΔABC centered at C using $k = \frac{1}{2}$



Jan 2-8:25 AM

In the following diagram, $\Delta ABC \sim \Delta A'B'C'$. Give a similarity transformation that would map ΔABC onto $\Delta A'B'C'$

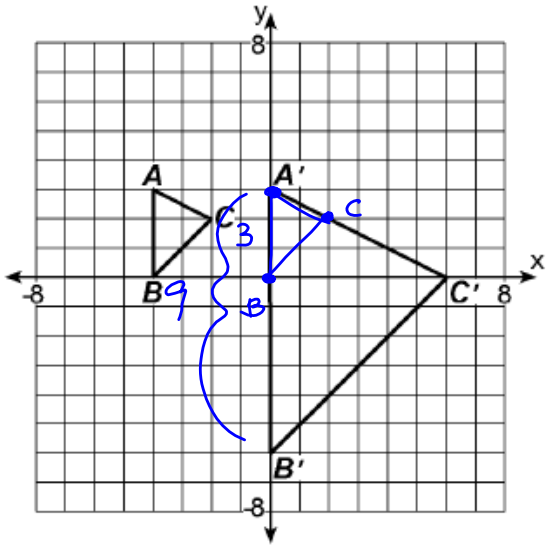
$T_{5,-5}$ then $D_{C,\frac{1}{2}}$



Dec 20-7:31 AM

In the following diagram, $\Delta ABC \sim \Delta A'B'C'$. Give a similarity transformation that would map ΔABC onto $\Delta A'B'C'$

$T_{4,0}$ then $D_{A,3}$



Jan 2-8:25 AM