

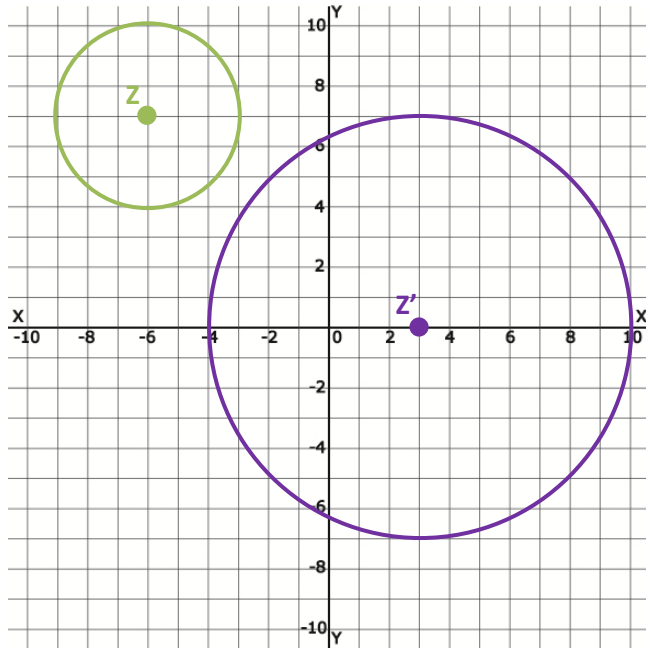
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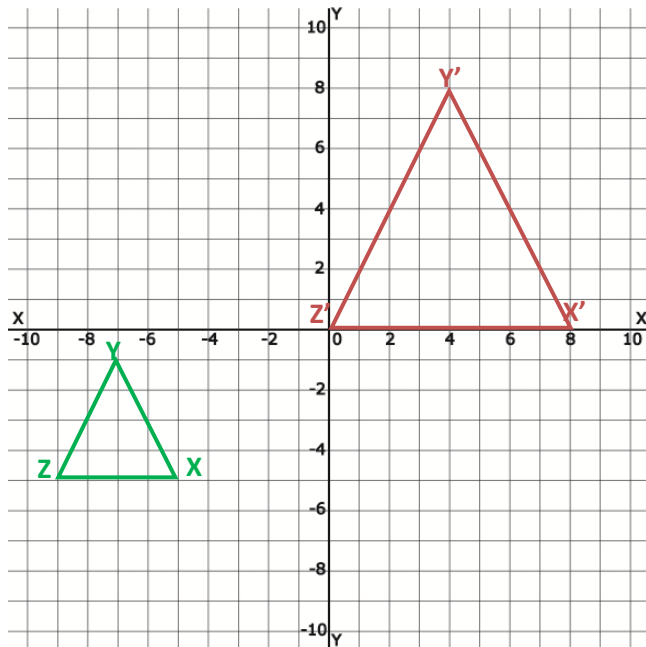
**Similarity Transformations Problems - Independent Practice Worksheet**

Complete all the problems.

1) You can transform  $Z$  to  $Z'$  by translating it and then performing dilation. Find the translation rule and the scale factor of the dilation.



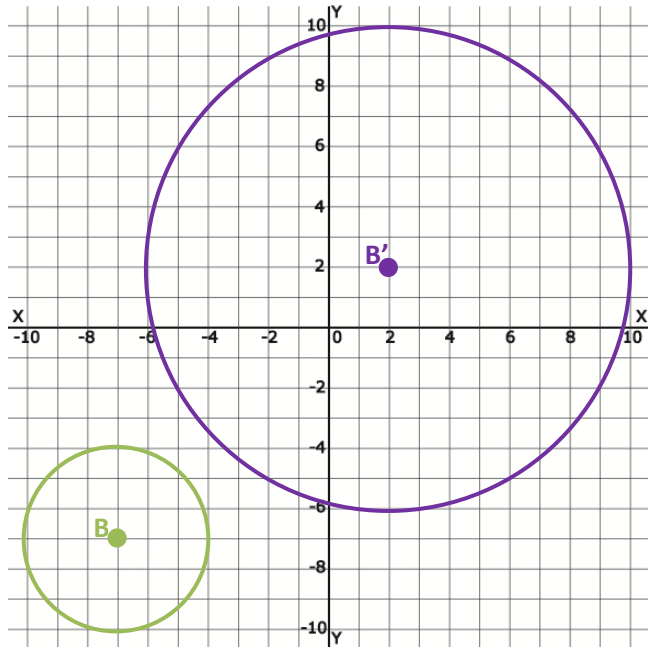
2) You can transform  $\triangle XYZ$  to  $\triangle X'Y'Z'$  by translating it and then performing dilation centered at the origin. So,  $\triangle XYZ \sim \triangle X'Y'Z'$ . Find the translation rule and the scale factor of the dilation.



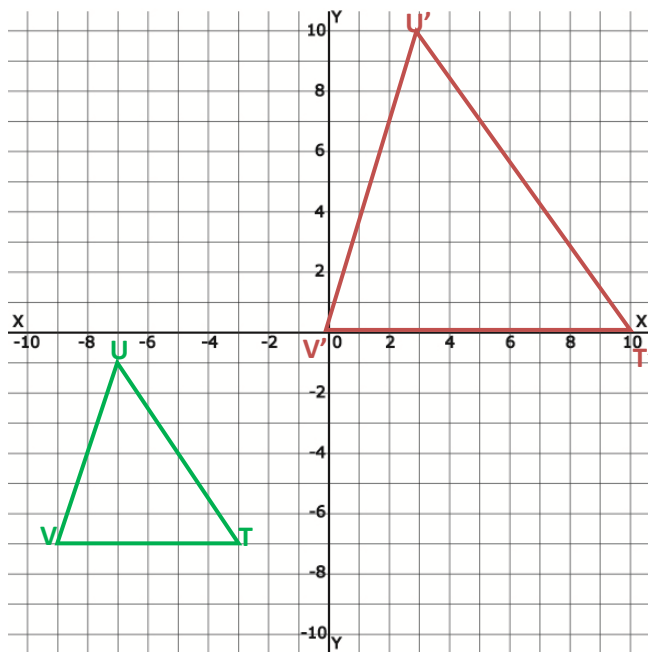
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3) You can transform B to B' by translating it and then performing dilation. Find the translation rule and the scale factor of the dilation.



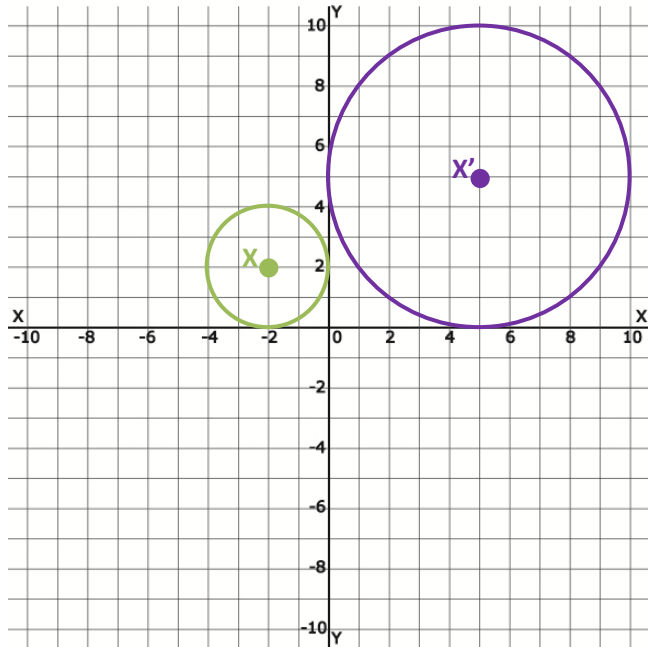
4) You can transform  $\Delta TUV$  to  $\Delta T'U'V'$  by translating it and then performing dilation centered at the origin. So,  $\Delta TUV \sim \Delta T'U'V'$ . Find the translation rule and the scale factor of the dilation.



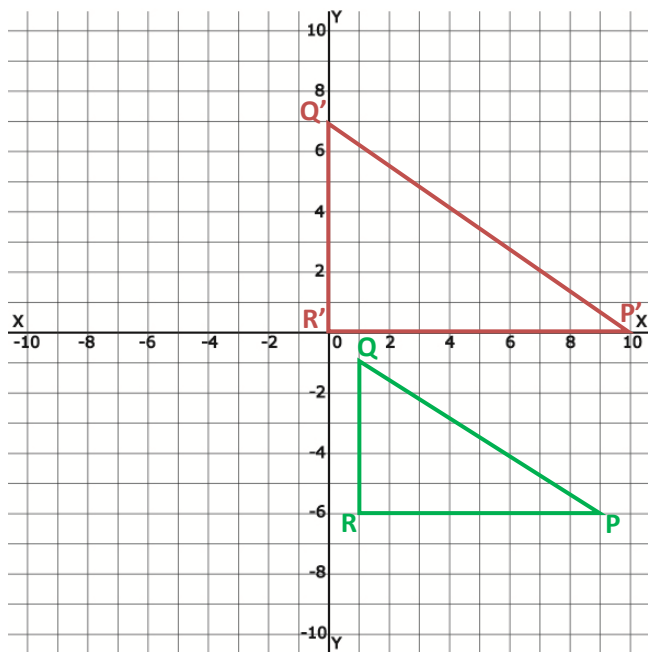
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5) You can transform  $X$  to  $X'$  by translating it and then performing dilation. Find the translation rule and the scale factor of the dilation.



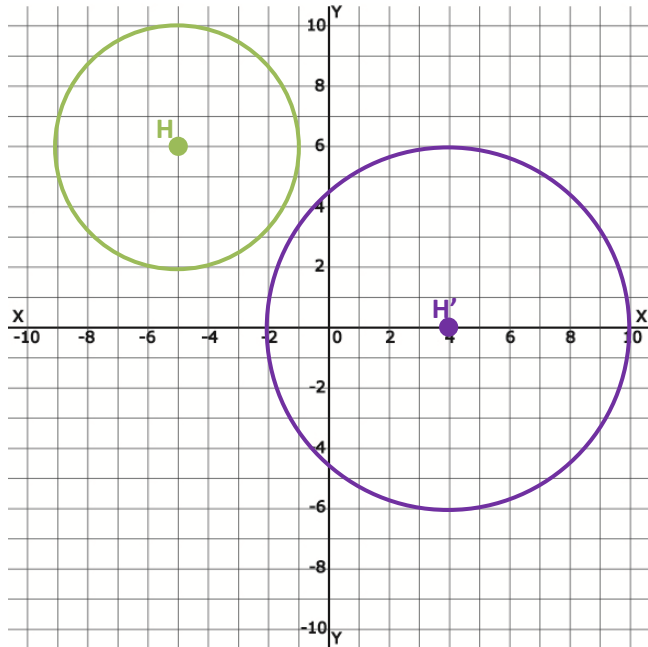
6) You can transform  $\triangle PQR$  to  $\triangle P'Q'R'$  by translating it and then performing dilation centered at the origin. So,  $\triangle PQR \sim \triangle P'Q'R'$ . Find the translation rule and the scale factor of the dilation.



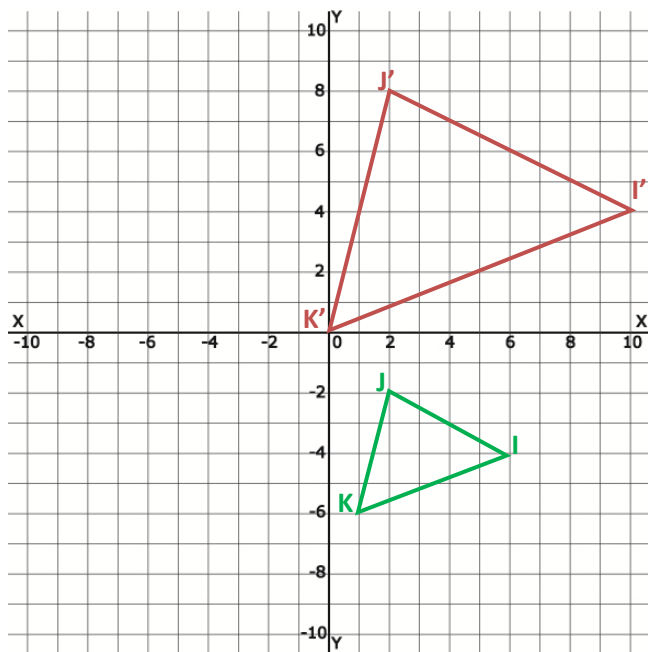
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7) You can transform H to H' by translating it and then performing dilation. Find the translation rule and the scale factor of the dilation.



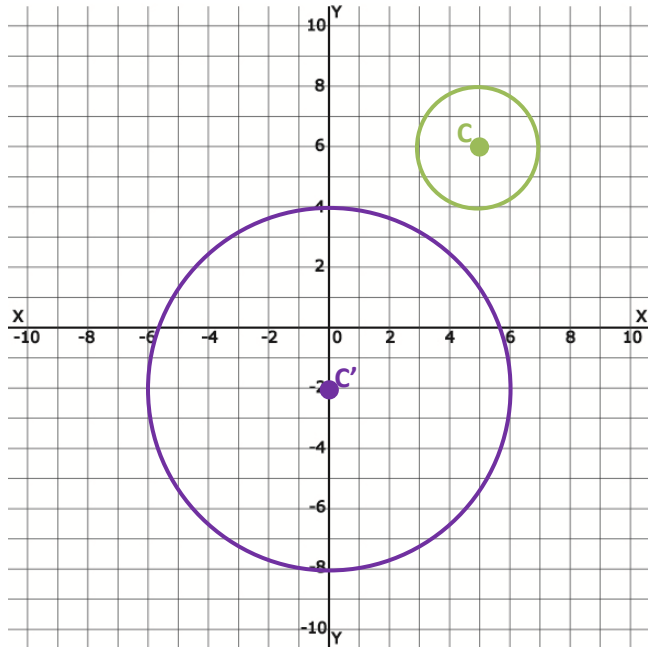
8) You can transform  $\Delta IJK$  to  $\Delta I'J'K'$  by translating it and then performing dilation centered at the origin. So,  $\Delta ABC \sim \Delta A'B'C'$ . Find the translation rule and the scale factor of the dilation.



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9) You can transform  $C$  to  $C'$  by translating it and then performing dilation. Find the translation rule and the scale factor of the dilation.



10) You can transform  $\triangle JKL$  to  $\triangle J'K'L'$  by translating it and then performing dilation centered at the origin. So,  $\triangle JKL \sim \triangle J'K'L'$ . Find the translation rule and the scale factor of the dilation.

