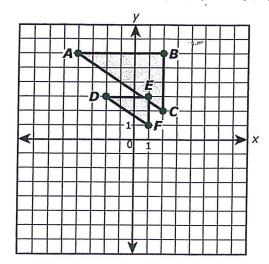
In the coordinate plane shown, $\triangle ABC$ has vertices A(-4,6) , B(2,6) , and C(2,2) .

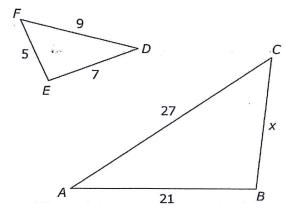


What is the scale factor and the center of dilation that will carry $\triangle ABC$ onto $\triangle DEF$?

Enter your answers in the boxes to complete the sentence.

The scale factor is		and the center of dilation is a
(,) .

The figure shows $\triangle ABC \sim \triangle DEF$ with side lengths as indicated.



What is the value of x?

Enter your answer in the box.

In the coordinate plane,

 $\triangle ABC$ has vertices at A(1,-2), B(1,0.5), C(2,1); and

 $\triangle DEF$ has vertices at D (4,-3), E (4,2), F (6,3).

Select from the drop-down menus to correctly complete the sentence.

The triangles are similar because $\triangle DEF$ is the image of $\triangle ABC$ under a dilation with center

Choose... v and scale factor Choose... v