1. Find the coordinates of the vertices of the image of triangle $IJK$ after it is dilated by a scale factor of two using the origin as the center of dilation.

$I' (8,0)$  
$J' (4,-8)$  
$K' (-4,8)$

2. Find the coordinates of the vertices of the image of triangle $IJK$ after it is dilated by a scale factor of $\frac{1}{4}$ using the origin as the center of dilation.

$I' (1,0)$  
$J' (0.5, -1)$  
$K' (-0.5, 2)$

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