

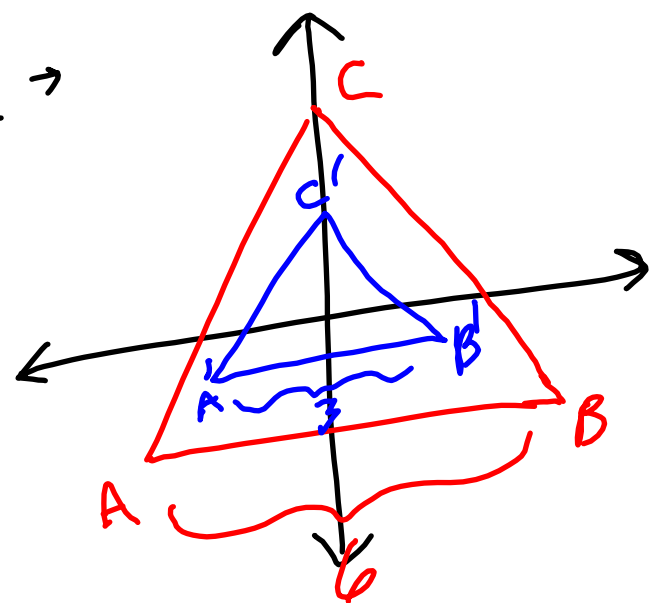
Dilations

- Notation $\rightarrow D_k$ ($k = \text{scale factor}$) $\rightarrow k > 1 \Rightarrow \text{enlargement}$
 $k < 1 \Rightarrow \text{reduction}$

- To find $k \Rightarrow \frac{\text{Image}}{\text{Pre-Image}}$

- To find coordinates of image, multiply by k

EX \rightarrow



$$k = \frac{3}{6} = \frac{1}{2}$$

EX \rightarrow

$A(3, 5)$	$k = 6$
$B(6, 8)$	
$C(9, 10)$	

$A'(18, 30)$
$B'(36, 48)$
$C'(54, 60)$

EX \rightarrow

$D(3, 2)$	$k = 4$
$E(-1, 5)$	
$F(2, -3)$	

$D'(12, 8)$
$E'(-4, 20)$
$F'(8, -12)$