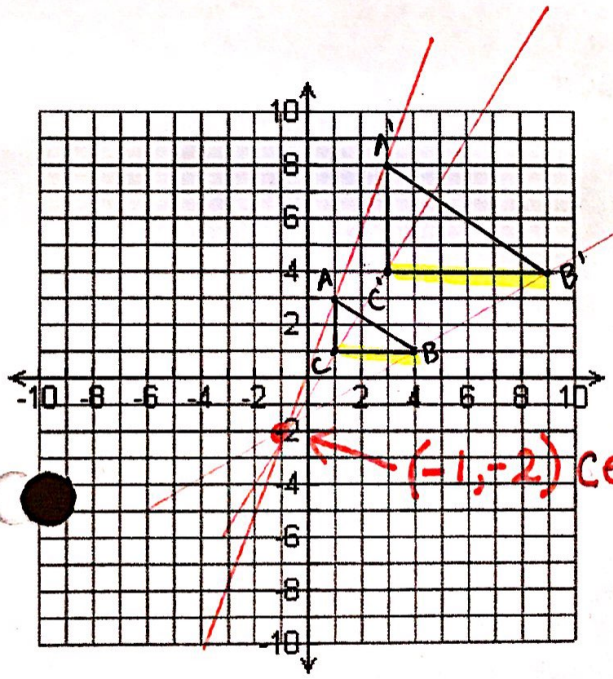
**Dilation –** A "non-rigid" transformation that results in similar figures. ① corresponding ∠'s are ≅ ② corresponding sides are proportional

**Scale Factor –** $\frac{\text{image}}{\text{pre-image}}$ ① Enlargement if SF > 1 ② Reduction if 0 < SF < 1

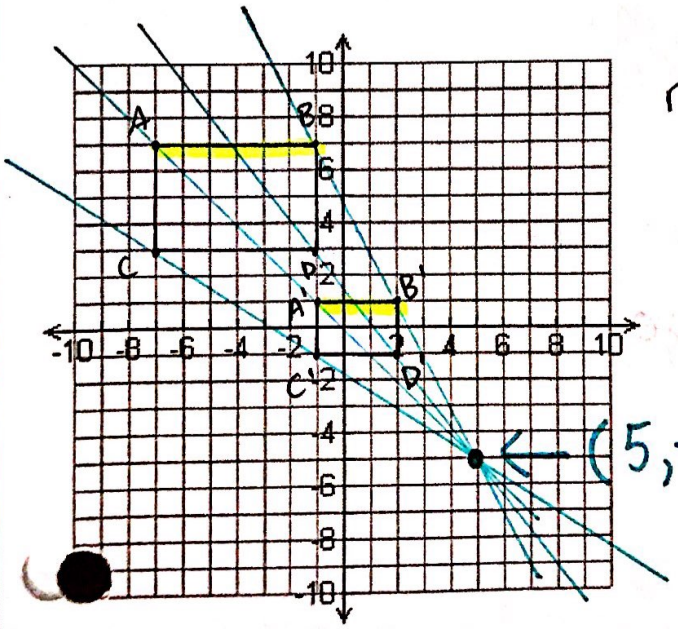
**Center of Dilation –** connect corresponding vertices with a straight line




Enlargement

$SF = \frac{\text{image}}{\text{pre-image}} = \frac{6}{3} = 2$

(-1,-2) center of dilation




reduction

$SF = \frac{\text{image}}{\text{pre-image}} = \frac{3}{6} = \frac{1}{2}$

(5,-5) center of dilation

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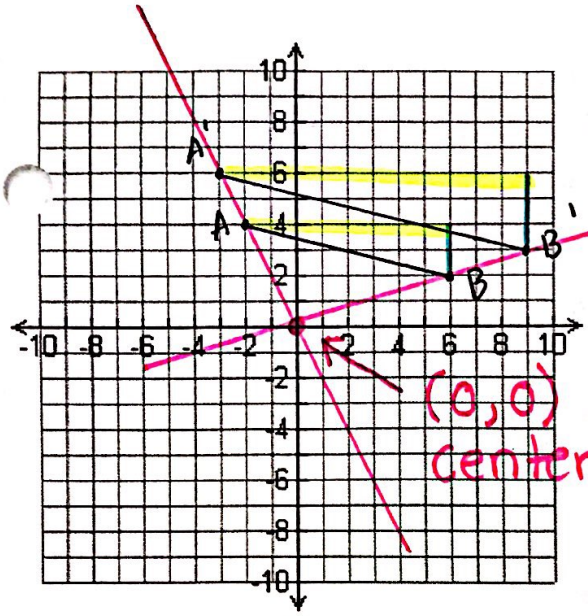
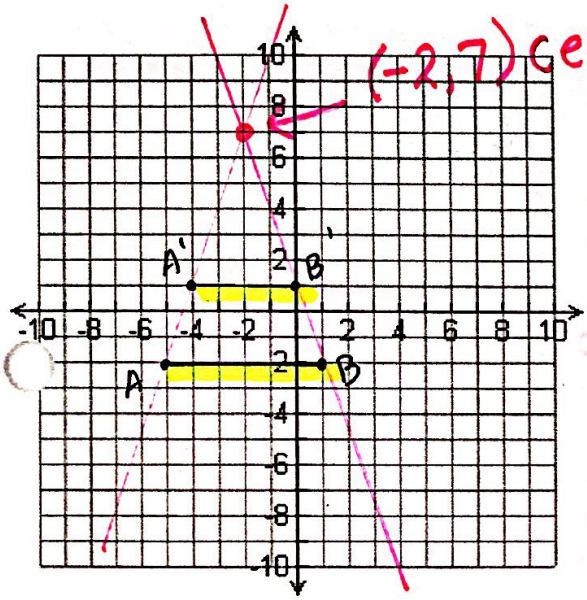


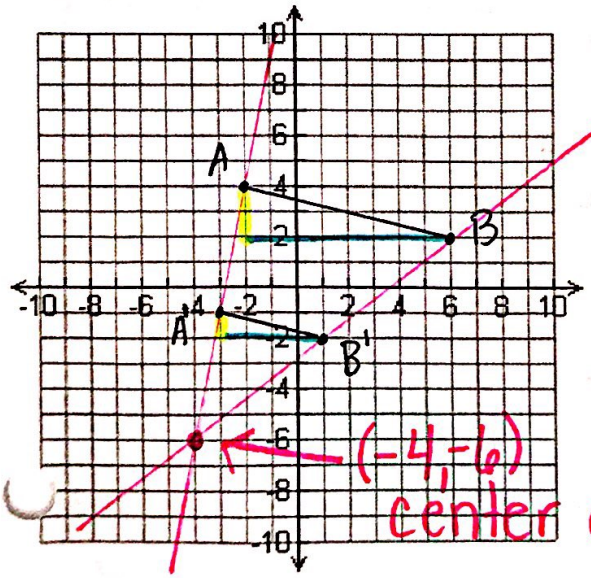

enlargement

$SF = \frac{\text{image}}{\text{pre-image}} = \frac{3}{2}$ or 1.5




reduction

$SF = \frac{\text{image}}{\text{pre-image}} = \frac{4}{6} = \frac{2}{3}$ or $.\overline{6}$




reduction

$SF = \frac{\text{image}}{\text{pre-image}} = \frac{1}{2}$ or .5

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