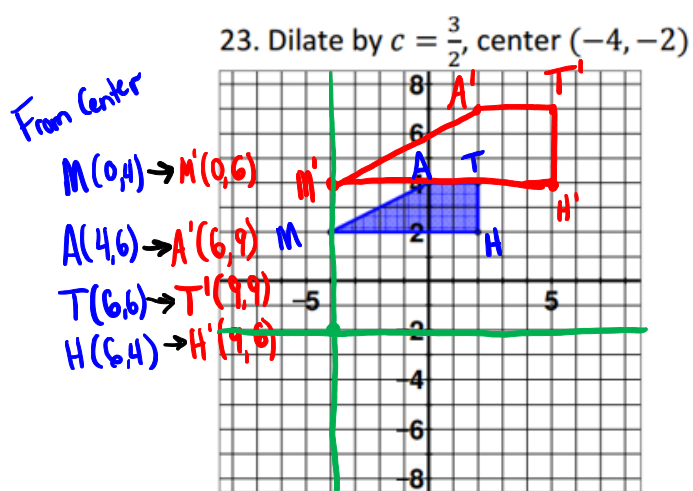
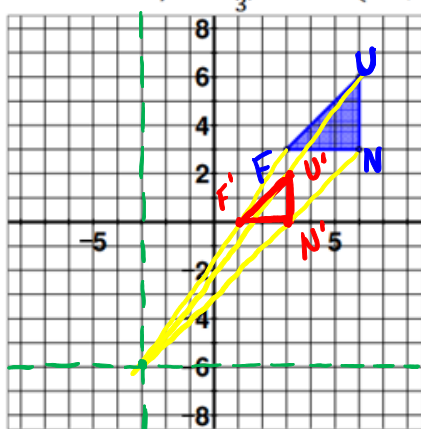


What if the center is not at the origin?



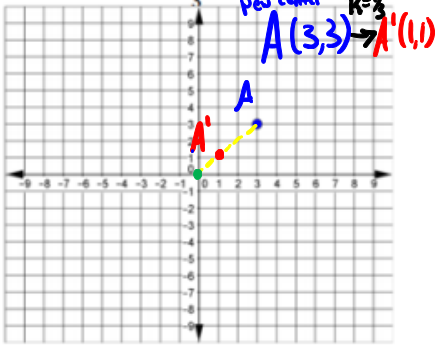
17. Dilate by $c = \frac{2}{3}$, center $(-3, -6)$



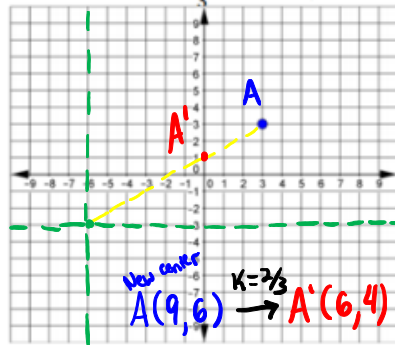
From Center
 $F(6, 9) \xrightarrow{k=\frac{2}{3}}$ $F'(4, 6)$
 $U(9, 12) \rightarrow U'(6, 8)$
 $N(9, 9) \rightarrow N'(6, 6)$

Dilations: Center not at Origin

1. Dilate by $c = \frac{1}{3}$, center $(0,0)$



2. Dilate by $c = \frac{2}{3}$, center $(-6, -3)$



3. Dilate by $c = 2$, center $(4,6)$

