

- 1) The dilated coordinates are $T'(1, 8)$, $U'(10, -10)$ and $V'(16, -13)$. Find the original coordinates, if the center of dilation is $(7, -7)$ and the scale factor is $\frac{3}{7}$.

- 2) The vertices of a parallelogram are $P(-6, 8)$, $Q(-2, 8)$, $R(-4, 6)$ and $S(-8, 6)$. They are dilated to $P'(-6, 7)$, $Q'(0, 7)$, $R'(-3, 4)$ and $S'(-9, 4)$ with a scale factor of 1.5. Determine the center of dilation.

- 3) ABCD is dilated to A' and B' with a center of dilation is $(7, 5)$. The coordinates of the center of dilation are $(26, -4)$ and $D(-20, -16)$. Find the dilated coordinates of C and D.

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- 4) Write the coordinates of the dilated figure if the original figure has vertices $A(2, 3)$, $B(4, 3)$, $C(4, 5)$ and $D(2, 5)$ with a scale factor is $\frac{9}{8}$.

- 5) The dilated coordinates are $A'(12, 10)$, $B'(18, 10)$, $C'(18, 14)$ and $D'(12, 14)$. Find the original coordinates, if the center of dilation is $(7, 5)$.

- 6) The vertices $L(-3, 0)$, $M(0, -2)$ and $N(-6, -3)$ are dilated to $L'(-27, -6)$, $M'(-6, -20)$ and $N'(-48, -27)$ with a scale factor of 7. Find the center of dilation.
