Dilation

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 $\frac{3}{7}$.

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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.

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3) ABCD is dilated to A   ation is (7, 5). The
   coordinates of the c   26, −4) and D(−20, −16).
   Find the dilated coo

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4) Write the coordinate   cale factor is $\frac{9}{8}$.

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5) The dilated coordin   Find the original
   coordinates, if the g

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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.

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