

## Dilated Coordinates

Find the dilated coordinates with the given center and scale factor (k).

1)  $U(2, -2), V(8, -5), W(2, -4)$

center :  $(9, -5), k = 1.2$

$U' : \underline{\hspace{2cm}}, V' : \underline{\hspace{2cm}}$

$W' : \underline{\hspace{2cm}}$

2)  $A(-4, 1), B(-1, 1), C(-2, 2)$

center :  $(-2, 1), k = 8$

$A' : \underline{\hspace{2cm}}, B' : \underline{\hspace{2cm}}$

$C' : \underline{\hspace{2cm}}$

3)  $P(-5, 3), Q(4, 0), R(-2, -6)$

center :  $(-5, 5), k = 0.4$

$P' : \underline{\hspace{2cm}},$

$R' : \underline{\hspace{2cm}}$

5)  $R(3, 6), S(5, 3), T(7, 1), U(8, 4)$

center :  $(8, 1), k = \frac{1}{5}$

$R' : \underline{\hspace{2cm}},$

$T' : \underline{\hspace{2cm}},$

$F(4, -1), H(-6, -2)$

$k = \frac{3}{4}$

$F' : \underline{\hspace{2cm}}$

$H' : \underline{\hspace{2cm}}$

$G(-2), N(0, -1)$

$k = 3.5$

$L' : \underline{\hspace{2cm}}$

$N' : \underline{\hspace{2cm}}$

7)  $B(4, -5), C(5, -6), D(2, -4), E(3, -7)$

center :  $(5, -8), k = 4$

$B' : \underline{\hspace{2cm}}, C' : \underline{\hspace{2cm}}$

$D' : \underline{\hspace{2cm}}, E' : \underline{\hspace{2cm}}$

8)  $X(-1, -3), Y(-6, -5), Z(1, -6)$

center :  $(-3, -3), k = \frac{5}{2}$

$X' : \underline{\hspace{2cm}}, Y' : \underline{\hspace{2cm}}$

$Z' : \underline{\hspace{2cm}}$

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1)  $U(2, -2), V(8, -5), W(2, -4)$

center :  $(9, -5)$  ,  $k = 1.2$

$U' : \underline{(0.6, -1.4)}$  ,  $V' : \underline{(7.8, -5)}$

$W' : \underline{(0.6, -3.8)}$

2)  $A(-4, 1), B(-1, 1), C(-2, 2)$

center :  $(-2, 1)$  ,  $k = 8$

$A' : \underline{(-18, 1)}$  ,  $B' : \underline{(6, 1)}$

$C' : \underline{(-2, 9)}$

3)  $P(-5, 3), Q(4, 0), R(-2, -6)$

center :  $(-5, 5)$  ,  $k = 0.4$

$P' : \underline{(-5, 4.2)}$  ,

$R' : \underline{(-3.8, 0.6)}$

5)  $R(3, 6), S(5, 3), T(7, 1), U(8, 4)$

center :  $(8, 1)$  ,  $k = \frac{1}{5}$

$R' : \underline{(7, 2)}$  ,

$T' : \underline{(\frac{39}{5}, 1)}$  ,

7)  $B(4, -5), C(5, -6), D(2, -4), E(3, -7)$

center :  $(5, -8)$  ,  $k = 4$

$B' : \underline{(1, 4)}$  ,  $C' : \underline{(5, 0)}$

$D' : \underline{(-7, 8)}$  ,  $E' : \underline{(-3, -4)}$

4)  $F(-2, 4), G(1, 1), H(-6, -2)$

$k = \frac{3}{4}$

$F' : \underline{(-2, 4)}$

$H' : \underline{(-\frac{13}{2}, -\frac{1}{2})}$

6)  $J(1, 1), K(2, 2), L(3, 3), M(4, 4)$

center :  $(1, 1)$  ,  $k = 3.5$

$L' : \underline{(2.5, 15.5)}$

$N' : \underline{(-15, 1.5)}$

8)  $X(-1, -3), Y(-6, -5), Z(1, -6)$

center :  $(-3, -3)$  ,  $k = \frac{5}{2}$

$X' : \underline{(2, -3)}$  ,  $Y' : \underline{(-\frac{21}{2}, -8)}$

$Z' : \underline{(7, -\frac{21}{2})}$

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