

Name : _____

Dilated Coordinates

T1S2

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

1) L(2, 4), M(4, 1), N(3, 2)

center : (5, 3), k = 9

L' : _____, M' : _____

N' : _____

2) S(-6, -9), T(2, -4), U(0, 6), V(-5, 1)

center : (1, -4), k = $\frac{2}{5}$

S' : _____, T' : _____

U' : _____, V' : _____

3) W(0, 2), X(4, 0), Y(4, -4), Z(0, -9)

center : (4, 0), k = $\frac{1}{4}$

W' : _____, X' : _____

Y' : _____, Z' : _____

5) J(3, -3), K(4, -3), L(2, -2)

center : (3, -4), k = 6

J' : _____, K' : _____

L' : _____

7) R(-9, -4), S(-1, -2), T(-4, -6)

center : (-1, -2), k = $\frac{5}{8}$

R' : _____, S' : _____

T' : _____

8) U(-4, 2), V(5, 1), W(8, -3)

center : (4, 2), k = 2.4

U' : _____, V' : _____

W' : _____

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Dilated Coordinates

T1S2

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

1) L(2, 4), M(4, 1), N(3, 2)

center : (5, 3), k = 9

L' : (-22, 12) , M' : (-4, -15)

N' : (-13, -6)

2) S(-6, -9), T(2, -4), U(0, 6), V(-5, 1)

center : (1, -4), k = $\frac{2}{5}$

S' : (- $\frac{9}{5}$, -6) , T' : ($\frac{7}{5}$, -4)

U' : ($\frac{3}{5}$, 0) , V' : (- $\frac{7}{5}$, -2)

3) W(0, 2), X(4, 0), Y(4, -4), Z(0, -9)

center : (4, 0), k = $\frac{1}{4}$

W' : (3, $\frac{1}{2}$) ,

Y' : (4, -1) ,

5) J(3, -3), K(4, -3), L(2, -2)

center : (3, -4), k = 6

J' : (3, 2) ,

L' : (-3, 8)

7) R(-9, -4), S(-1, -2), T(-4, -6)

center : (-1, -2), k = $\frac{5}{8}$

R' : (-6, - $\frac{13}{4}$) , S' : (-1, -2)

T' : (- $\frac{23}{8}$, - $\frac{9}{2}$)

8) U(-4, 2), V(5, 1), W(8, -3)

center : (4, 2), k = 2.4

U' : (-15.2, 2) , V' : (6.4, -0.4)

W' : (13.6, -10)

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