

Name : \_\_\_\_\_

## Dilated Coordinates

T1S3

Find the dilated coordinates with the given scale factor.

1)  $W(6, 3), X(-3, -9), Y(-9, -12), Z(12, -6)$

Scale factor =  $\frac{2}{3}$

$W'$  : \_\_\_\_\_ ,  $X'$  : \_\_\_\_\_

$Y'$  : \_\_\_\_\_ ,  $Z'$  : \_\_\_\_\_

2)  $T(1, 4), U(5, 2), V(4, 3)$

Scale factor = 6

$T'$  : \_\_\_\_\_ ,  $U'$  : \_\_\_\_\_

$V'$  : \_\_\_\_\_

3)  $A(1, -5), B(-3, -4), C(-1, -3)$

Scale factor = 0.8

$A'$  : \_\_\_\_\_ ,

$C'$  : \_\_\_\_\_

5)  $P(-6, 1), Q(-6, -3), R(2, -3)$

Scale factor = 2.7

$P'$  : \_\_\_\_\_ ,

$R'$  : \_\_\_\_\_ ,

7)  $K(1, 1), L(4, 7), M(3, -5)$

Scale factor = 4

$K'$  : \_\_\_\_\_ ,  $L'$  : \_\_\_\_\_

$M'$  : \_\_\_\_\_

4)  $D(2, 3), E(4, 5), F(6, 6), G(8, 7), H(6, 6)$

$F'$  : \_\_\_\_\_

$H'$  : \_\_\_\_\_

6)  $I(7, -9), J(9, -11), K(11, -13), L(13, -15)$

$Y'$  : \_\_\_\_\_

8)  $R(-2, -2), S(2, -3), T(3, 1), U(0, 0)$

Scale factor = 9

$R'$  : \_\_\_\_\_ ,  $S'$  : \_\_\_\_\_

$T'$  : \_\_\_\_\_ ,  $U'$  : \_\_\_\_\_

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## Dilated Coordinates

T1S3

Find the dilated coordinates with the given scale factor.

1)  $W(6, 3), X(-3, -9), Y(-9, -12), Z(12, -6)$

Scale factor =  $\frac{2}{3}$

$W' : \underline{(4, 2)}$  ,  $X' : \underline{(-2, -6)}$

$Y' : \underline{(-6, -8)}$  ,  $Z' : \underline{(8, -4)}$

2)  $T(1, 4), U(5, 2), V(4, 3)$

Scale factor = 6

$T' : \underline{(6, 24)}$  ,  $U' : \underline{(30, 12)}$

$V' : \underline{(24, 18)}$

3)  $A(1, -5), B(-3, -4), C(-1, -4), H(6, 6)$

Scale factor = 0.8

$A' : \underline{(0.8, -4)}$  ,

$C' : \underline{(-0.8, -6.4)}$

5)  $P(-6, 1), Q(-6, -3), R(2, -3), Y(7, -9)$

Scale factor = 2.7

$P' : \underline{(-16.2, 2.7)}$  ,

$R' : \underline{(5.4, -8.1)}$  ,

7)  $K(1, 1), L(4, 7), M(3, -5)$

Scale factor = 4

$K' : \underline{(4, 4)}$  ,  $L' : \underline{(16, 28)}$

$M' : \underline{(12, -20)}$

8)  $R(-2, -2), S(2, -3), T(3, 1), U(0, 0)$

Scale factor = 9

$R' : \underline{(-18, -18)}$  ,  $S' : \underline{(18, -27)}$

$T' : \underline{(27, 9)}$  ,  $U' : \underline{(0, 0)}$

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