

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

## Dilated Coordinates

T1S2

Find the dilated coordinates with the given scale factor.

1)  $C(-3, 1), D(1, 0), E(-3, -3)$

Scale factor =  $\frac{7}{3}$

$C'$  : \_\_\_\_\_ ,  $D'$  : \_\_\_\_\_

$E'$  : \_\_\_\_\_

2)  $W(4, -9), X(-2, -5), Y(3, -2), Z(8, 2)$

Scale factor = 2

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

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

3)  $S(0, 1), T(-1, -2), U(0, -3), N(4, 2)$

Scale factor = 6

$S'$  : \_\_\_\_\_ ,  $M'$  : \_\_\_\_\_

$U'$  : \_\_\_\_\_ , \_\_\_\_\_

5)  $X(4, 2), Y(3, 4), Z(2, 3)$

Scale factor =  $\frac{3}{4}$

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

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

7)  $E(-1, -2), F(2, -5), G(5, -1), H(1, 1)$

Scale factor =  $\frac{2}{5}$

$E'$  : \_\_\_\_\_ ,  $F'$  : \_\_\_\_\_

$G'$  : \_\_\_\_\_ ,  $H'$  : \_\_\_\_\_

8)  $P(2, 4), Q(-2, -6), R(6, -8)$

Scale factor =  $\frac{1}{2}$

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

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

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## Dilated Coordinates

T1S2

Find the dilated coordinates with the given scale factor.

1)  $C(-3, 1), D(1, 0), E(-3, -3)$

Scale factor =  $\frac{7}{3}$

$C' : \underline{(-7, \frac{7}{3})}$  ,  $D' : \underline{(\frac{7}{3}, 0)}$

$E' : \underline{(-7, -7)}$

2)  $W(4, -9), X(-2, -5), Y(3, -2), Z(8, 2)$

Scale factor = 2

$W' : \underline{(8, -18)}$  ,  $X' : \underline{(-4, -10)}$

$Y' : \underline{(6, -4)}$  ,  $Z' : \underline{(16, 4)}$

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

Scale factor = 6

$S' : \underline{(0, 6)}$  ,

$U' : \underline{(0, -18)}$  ,

5)  $X(4, 2), Y(3, 4), Z(2, 3)$

Scale factor =  $\frac{3}{4}$

$X' : \underline{(3, \frac{3}{2})}$  ,

$Z' : \underline{(\frac{3}{2}, \frac{9}{4})}$

7)  $E(-1, -2), F(2, -5), G(5, -1), H(1, 1)$

Scale factor =  $\frac{2}{5}$

$E' : \underline{(-\frac{2}{5}, -\frac{4}{5})}$  ,  $F' : \underline{(\frac{4}{5}, -2)}$

$G' : \underline{(2, -\frac{2}{5})}$  ,  $H' : \underline{(\frac{2}{5}, \frac{2}{5})}$

8)  $P(2, 4), Q(-2, -6), R(6, -8)$

Scale factor =  $\frac{1}{2}$

$P' : \underline{(1, 2)}$  ,  $Q' : \underline{(-1, -3)}$

$R' : \underline{(3, -4)}$

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