

Name : _____

Dilated Coordinates

T1S3

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' : _____, V' : _____

W' : _____

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

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

A' : _____, B' : _____

C' : _____

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

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

P' : _____, _____

R' : _____

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

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

R' : _____, _____

T' : _____, _____

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

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

F' : _____

H' : _____

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

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

B' : _____, C' : _____

D' : _____, E' : _____

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

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

X' : _____, Y' : _____

Z' : _____

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