

Dilated coordinates of the image are given. Find the original coordinates with the given center and scale factor(k).

1) $L'(-10, -2), M'(-9, -3), N'(-15, -1)$

center : $(-14, -2), k = \frac{1}{8}$

L : _____ , M : _____

N : _____

2) $P'(-5, -8), Q'(-2, -5), R'(-5, -2)$

center : $(-5, -5), k = 3$

P : _____ , Q : _____

R : _____

3) $A'(-5, 16), B'(4, 13), C'(10, 11)$

center : $(4, 4), k = 0.6$

A : _____ ,

C : _____

5) $Q'(-18, 16), R'(-6, 12), S'(-12, 10)$

center : $(-10, 12), k = 0.4$

Q : _____ ,

S : _____

6) $W'(22, 14), X'(2, 4)$

2.5

_____ , V : _____

_____ , X : _____

Z'(6, -3)

$\frac{5}{3}$

_____ , Y : _____

7) $J'(-4, -5), K'(6, -7), L'(8, -1), M'(-10, -9)$

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

J : _____ , K : _____

L : _____ , M : _____

8) $E'(17, 13), F'(12, 18), G'(7, 18), H'(7, 13)$

center : $(12, 13), k = 5$

E : _____ , F : _____

G : _____ , H : _____

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