

Center of Dilation

Find the center of dilation.

1) $Q(10, -3), R(2, -7), S(6, 1)$ are dilated to $Q'(1, 3), R'(-1, 2), S'(0, 4), k = \frac{1}{4}$

Center = _____

2) $A(-3, 5), B(1, 4), C(0, -1), D(-2, -2)$ are dilated to $A'(-31, 12), B'(1, 4), C'(-7, -36), D'(-23, -44), k = 8$

Center = _____

3) $E(3, -6), F(9, -6), G(5, 5)$

Center = _____

4) $S(1, 1), T(-5, 3), U(-5, -2), V'(-5, -4), k = 0.5$

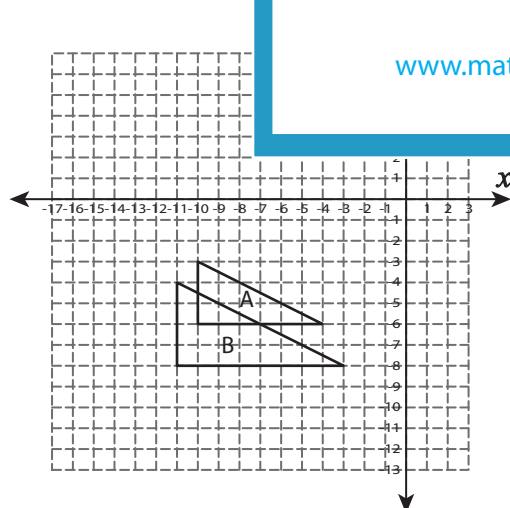
Center = _____

5) $K(9, 6), L(12, 5), M(7, 1), N'(1, 15), k = 3$

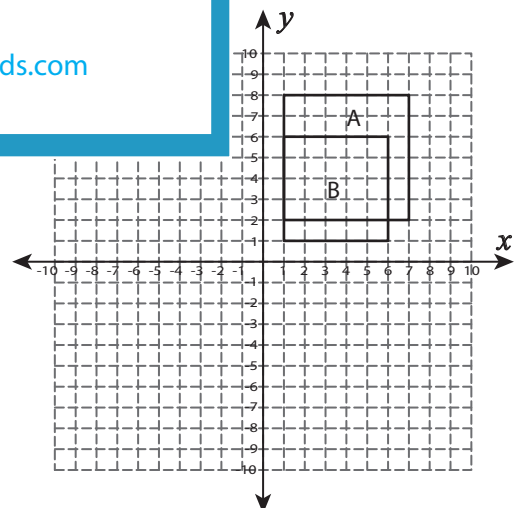
Center = _____

Figure A is a dilated image of Figure B.

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



Center = _____



Center = _____

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Center of Dilation

Find the center of dilation.

- 1) $Q(10, -3), R(2, -7), S(6, 1)$ are dilated to $Q'(1, 3), R'(-1, 2), S'(0, 4), k = \frac{1}{4}$

Center = **(-2, 5)**

- 2) $A(-3, 5), B(1, 4), C(0, -1), D(-2, -2)$ are dilated to $A'(-31, 12), B'(1, 4), C'(-7, -36), D'(-23, -44), k = 8$

Center = **(1, 4)**

- 3) $E(3, -6), F(9, -6), G(5, 5)$ are dilated to $E'(-1, -1), F'(-1, -1), G'(-1, -1), k = 5$

Center = _____

- 4) $S(1, 1), T(-5, 3), U(-5, -2), V'(-5, -4), k = 0.5$

Center = _____

- 5) $K(9, 6), L(12, 5), M(7, 0), N'(1, 15), k = 3$

Center = _____

Figure A is a dilated image of Figure B.

- 1) $k = \frac{3}{4}$

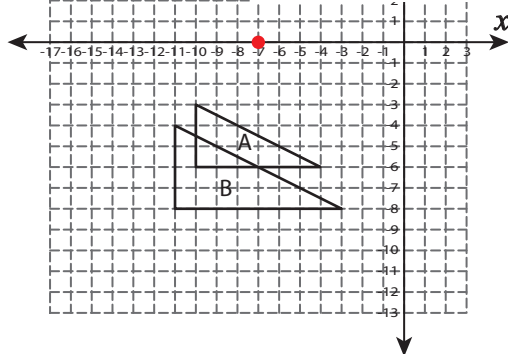
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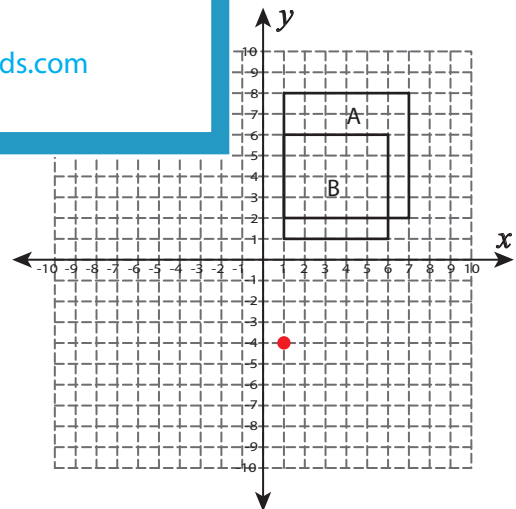
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Center = **(-7, 0)**



Center = **(1, -4)**