

Name : _____

Coordinate Rule

Sheet 1

Write the coordinate rule with the given center and scale factor (k).

1) center : $(6, 2)$, $k = 3.5$

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

3) center : $(-7, -3)$, $k = 2$

4) center : $(-4, 4)$, $k = 0.5$

5) center : $\left(\frac{3}{2}, -\frac{9}{2}\right)$, $k = \frac{1}{3}$

6) center : $(1, 0)$, $k = 9$

7) center : $(-2, -1)$, $k = \frac{1}{6}$

8) center : $(-5, 10)$, $k = \frac{3}{5}$

9) center : $\left(3, \frac{6}{7}\right)$, $k = \frac{7}{3}$

10) center : $(4, -1)$, $k = 7$

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Answer key

Coordinate Rule

Sheet 1

Write the coordinate rule with the given center and scale factor (k).

1) center : $(6, 2)$, $k = 3.5$

$$\underline{(3.5x - 15, 3.5y - 5)}$$

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

$$\underline{(4x - 15, 4y + 24)}$$

3) center : $(-7, -3)$, $k = 2$

$$\underline{(2x + 7, 2y + 3)}$$

4) center : $(-4, 4)$, $k = 0.5$

$$\underline{(0.5x - 2, 0.5y + 2)}$$

5) center : $\left(\frac{3}{2}, -\frac{9}{2}\right)$, $k = \frac{1}{3}$

$$\underline{\left(\frac{1}{3}x + 1, \frac{1}{3}y - 3\right)}$$

6) center : $(1, 0)$, $k = 9$

$$\underline{(9x - 8, 9y)}$$

7) center : $(-2, -1)$, $k = \frac{1}{6}$

$$\underline{\left(\frac{1}{6}x - \frac{5}{3}, \frac{1}{6}y - \frac{5}{6}\right)}$$

8) center : $(-5, 10)$, $k = \frac{3}{5}$

$$\underline{\left(\frac{3}{5}x - 2, \frac{3}{5}y + 4\right)}$$

9) center : $\left(3, \frac{6}{7}\right)$, $k = \frac{7}{3}$

$$\underline{\left(\frac{7}{3}x - 4, \frac{7}{3}y - \frac{8}{7}\right)}$$

10) center : $(4, -1)$, $k = 7$

$$\underline{(7x - 24, 7y + 6)}$$