

Student Name: _____

Score: _____

Midpoint Formula Worksheet

Mid point of the line segment $P(x_1, y_1)$ and $Q(x_2, y_2)$ is $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$

Find the missing end point of the following line segments whose midpoint and one of the endpoint is given:

Endpoint: (2, 5), midpoint: (3, 4) Missing endpoint: _____	Endpoint: (7, 9), midpoint: (6, 7) Missing endpoint: _____
Endpoint: (-4, 8), midpoint: (0, 8) Missing endpoint: _____	Endpoint: (-1, -1), midpoint: (-1, -1) Missing endpoint: _____
Endpoint: (3, 10), midpoint: (-2, -3) Missing endpoint: _____	Endpoint: (0, 4), midpoint: (5, 3.5) Missing endpoint: _____
Endpoint: (6, -2), midpoint: (4.5, -2.5) Missing endpoint: _____	Endpoint: (4, 4), midpoint: (0, 0) Missing endpoint: _____

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Answers

Endpoint: (2, 5), midpoint: (3, 4)	Endpoint: (7, 9), midpoint: (6, 7)
Missing endpoint: (4, 3)	Missing endpoint: (5, 5)
Endpoint: (-4, 8), midpoint: (0, 8)	Endpoint: (-1, -1), midpoint: (-1, -1)
Missing endpoint: (4, 8)	Missing endpoint: (-1, -1)
Endpoint: (3, 10), midpoint: (-2, -3)	Endpoint: (0, 4), midpoint: (5, 3.5)
Missing endpoint: (-7, -16)	Missing endpoint: (10, 3)
Endpoint: (6, -2), midpoint: (4.5, -2.5)	Endpoint: (4, 4), midpoint: (0, 0)
Missing endpoint: (3, -3)	Missing endpoint: (-4, -4)