Conditions

15. Find the coordinates of point Q, the other endpoint of the line segment, given P(8,2) and, the midpoint, M(2,5). HINT: Use the midpoint formula, plug in what you know and solve.

- A. (-2, 12)
- B. (0, 3.5)
- C. (4, 4)
- D. (-4, 8)

Solution

Let consider Q(x,y). Then by using the midpoint formula:

$$\frac{x+8}{2} = 2$$

$$\frac{y+2}{2} = 5$$

x=-4

y=8

Answer: D(-4,8)