

Finding the Unknown Values

The endpoints and the midpoint of a line segment are given. Find the value of the unknown coordinate.

1) Endpoints: $(-12, a), (-4, 8)$
Midpoint: $(b, 6)$

2) Endpoints: $(p, -1), (7, -13)$
Midpoint: $(6, -7)$

3)

Preview

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5)



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$j = \underline{\hspace{2cm}}, k = \underline{\hspace{2cm}}$

$y = \underline{\hspace{2cm}}$

7) Endpoints: $(-13, -8), (-5, -2)$
Midpoint: $(-9, n)$

8) Endpoints: $(6, 3), (c, d)$
Midpoint: $(7, 2)$

$n = \underline{\hspace{2cm}}$

$c = \underline{\hspace{2cm}}, d = \underline{\hspace{2cm}}$