

# 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:  $(7, 2)$

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

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