

# Finding the Unknown Values

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

1) Endpoints:  $(v, -6), (-4, -10)$   
Midpoint:  $(-9, -8)$

2) Endpoints:  $(-11, p), (1, -12)$   
Midpoint:  $(q, -6)$

3)

# Preview

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5)



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

$r = \underline{\hspace{2cm}}, s = \underline{\hspace{2cm}}$

7) Endpoints:  $(e, -5), (-13, f)$   
Midpoint:  $(-7, -6)$

8) Endpoints:  $(-8, -2), (z, -4)$   
Midpoint:  $(-1, y)$

$e = \underline{\hspace{2cm}}, f = \underline{\hspace{2cm}}$

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