Finding the Unknown Values

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

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

   Midpoint: $(3, -4)$

2) Endpoints: $(12, 5), (h, 7)$

   Midpoint: $(8, 6)$

3)

5)

Preview

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   $z =$ _____

   $c =$ _____ , $d =$ _____

7) Endpoints: $(x, -11), (7, -3)$

   Midpoint: $(10, y)$

8) Endpoints: $(3, -10), (-7, 8)$

   Midpoint: $(-2, t)$

   $x =$ _____ , $y =$ _____

   $t =$ _____