1) One endpoint of a line segment is (–2, –6). A point (0, –5) is one-third of the way from (–2, –6). Find the point that is two-third of the way from (–2, –6).

2) The points (4, 1) and (5, –1) are three-fifths and four-fifths of the way from the point A respectively. Find the endpoint B.

3) The endpoints of a line segment is (–7, 8) and (5, –4). Find the point that is one-fourth of the way from (–7, 8).

4) The points (4, 5) and (6, 7) are one-third and two-third of the way from the point M respectively. Find the point M.

5) Find the missing coordinates in each figure.
   a) UV is the radius of a circle.
   b) PQRS is a rectangle.
1) One endpoint of a line segment is (–2, –6). A point (0, –5) is one-third of the way from (–2, –6). Find the point that is two-thirds of the way from (–2, –6).

(2, –4)

2) The points (4, 1) and (5, –1) are three-fifths and four-fifths of the way from the point A respectively. Find the endpoint B.

(6, –3)

3) The endpoints of a line segment is (–7, 8) and (5, –4). Find the point that is one-fourth of the way from (–7, 8).

(–4, 5)

4) The points (4, 5) and (6, 7) are one-third and two-third of the way from the point M respectively. Find the point M.

(2, 3)

5) Find the missing coordinates in each figure.

a) UV is the radius of a circle.

(3, 3)

b) PQRS is a rectangle.

(3, –7)