

Dividing a Line Segment in a Ratio

(a) A line segment joins point A (1, 2) to point B (4, 8). Point C divides the line segment in the ratio $AC : CB = 2 : 1$. Find the coordinates of point C.

(b) A line segment joins point A (3, 1) to point B (11, 5). Point C divides the line segment in the ratio $AC : CB = 3 : 1$. Find the coordinates of point C.

(c) A line segment joins point A (3, 2) to point B (8, 12). Point C divides the line segment in the ratio $AC : CB = 1 : 4$. Find the coordinates of point C.

(a) A line segment joins point A (2, -3) to point B (5, 9). Point C divides the line segment in the ratio $AC : CB = 2 : 1$. Find the coordinates of point C.

(b) A line segment joins point A (6, -4) to point B (11, 6). Point C divides the line segment in the ratio $AC : CB = 3 : 2$. Find the coordinates of point C.

(c) A line segment joins point A (-8, -7) to point B (12, 3). Point C divides the line segment in the ratio $AC : CB = 2 : 3$. Find the coordinates of point C.

(a) A line segment joins point A (9, -1) to point B (5, 7). Point C divides the line segment in the ratio $AC : CB = 1 : 7$. Find the coordinates of point C.

(b) A line segment joins point A (1, 5) to point B (-5, 2). Point C divides the line segment in the ratio $AC : CB = 5 : 1$. Find the coordinates of point C.

A line segment joins point A (5, 2) with point B. Point C with coordinates (4, 4) divides the line segment in the ratio $AC : CB = 1 : 3$. Find the coordinates of B.

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