

Fill in the Blanks

Dividing a Line in a Ratio

Point C divides the line segment AB in the given ratio.

Point A	Point B	AC : CB	Point C	Midpoint of AB
(0, 0)	(3, 6)	2 : 1		(1.5, 3)
(1, 1)	(7, 4)	1 : 2		
(10, 5)	(0, 0)	4 : 1		
(0, 0)	(10, 5)	2 : 3		
(-1, 0)	(11, 8)	3 : 1		
(4, 7)	(8, -5)	1 : 3		
(2.3, -5.1)	(4.8, 2.4)	3 : 2		
(9, 0)	(-5, -7)	5 : 2		
(0, 0)		3 : 1		(2, 4)
	(5, 2)	1 : 2		(3.5, 0.5)
(-1, 6)		3 : 2	(5, 3)	
(11, -5)	(-3, 2)		(5, -2)	
(0, 2a)		2 : 1	(-4a, 4a)	
$\left(-\frac{9}{10}, \frac{2}{3}\right)$	$\left(\frac{1}{2}, 5\frac{1}{3}\right)$		$\left(-\frac{1}{10}, \frac{10}{3}\right)$	
		2 : 1	(6, -3)	(4, -2)
		2 : 5	$\left(\frac{11b}{14}, -2b\right)$	(b, b)