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

Point A	Point B	AC : CB	Point C	Midpoint of AB
$(0,0)$	$(3,6)$	$2:1$	$(2,4)$	$(1.5,3)$
$(1,1)$	$(7,4)$	$1:2$	$(3,2)$	$(4,2.5)$
$(10,5)$	$(0,0)$	$4:1$	$(2,1)$	$(5,2.5)$
$(0,0)$	$(10,5)$	$2:3$	$(4,2)$	$(5,2.5)$
$(-1,0)$	$(11,8)$	$3:1$	$(8,6)$	$(5,4)$
$(4,7)$	$(8,-5)$	$1:3$	$(5,4)$	$(6,1)$
$(2.3,-5.1)$	$(4.8,2.4)$	$3:2$	$(3.8,-0.1)$	$(3.55,-1.35)$
$(9,0)$	$(-5,-7)$	$5:2$	$(-1,-5)$	$(2,-3.5)$
$(0,0)$	$(4,8)$	$3:1$	$(3,6)$	$(2,4)$
$(2,-1)$	$(5,2)$	$1:2$	$(3,0)$	$(3.5,0.5)$
$(-1,6)$	$(9,1)$	$3:2$	$(5,3)$	$(4,3.5)$
$(11,-5)$	$(-3,2)$	$3:4$	$(5,-2)$	$(4,-1.5)$
$(0,2a)$	$(-6a,5a)$	$2:1$	$(-4a,4a)$	$(-3a,3.5a)$
$\left(-\dfrac{9}{10},\dfrac{2}{3}\right)$	$\left(\dfrac{1}{2},5\dfrac{1}{3}\right)$	$4:3$	$\left(-\dfrac{1}{10},\dfrac{10}{3}\right)$	$\left(-\dfrac{1}{5},3\right)$
$(-2,1)$	$(10,-5)$	$2:1$	$(6,-3)$	$(4,-2)$
$\left(\dfrac{b}{2},-6b\right)$	$\left(\dfrac{3b}{2},8b\right)$	$2:5$	$\left(\dfrac{11b}{14},-2b\right)$	(b,b)