

Points on a Line

- a) Mid-point of $(0, 0)$ and $(4, 10)$.
- b) Mid-point of $(3, 7)$ and $(6, 11)$.
- c) Mid-point of $(-4, 3)$ and $(2, -5)$.
- d) Mid-point of $(1.5, 4)$ and $(-3, 5.3)$.
- e) $A = (2, 1)$, $B = (6, 9)$. Find the point P such that $AP:PB = 1:3$.
- f) $A = (0, 3)$, $B = (6, -6)$. Find the point P such that $AP:PB = 2:1$.
- g) $A = (-3, 1)$, $B = (-12, 4)$. Find the point P such that $AP:PB = 1:5$.
- h) $A = (4, 2)$, $B = (7, -3)$. Find the point P such that $AP:PB = 3:7$.
- i) $A = (a, b)$, $B = (3, 10)$. $AP:PB = 1:3$, with $P = (0, 1)$. Find the values of a and b.
- j) $A = (3, 5)$, $B = (a, b)$. $AP:PB = 2:3$, with $P = (5.8, 11)$. Find the values of a and b.
- k) $A = (a, b)$, $B = (2, 7)$. $AP:PB = 1:9$, with $P = (1.5, 5.2)$. Find a and b.
- l) $A = (5, 8)$, $B = (a, b)$. $AP:PB = 2:7$, with $P = (3, 7\frac{1}{3})$. Find the values of a and b.

Points on a Line

- a) Mid-point of $(0, 0)$ and $(4, 10)$.
- b) Mid-point of $(3, 7)$ and $(6, 11)$.
- c) Mid-point of $(-4, 3)$ and $(2, -5)$.
- d) Mid-point of $(1.5, 4)$ and $(-3, 5.3)$.
- e) $A = (2, 1)$, $B = (6, 9)$. Find the point P such that $AP:PB = 1:3$.
- f) $A = (0, 3)$, $B = (6, -6)$. Find the point P such that $AP:PB = 2:1$.
- g) $A = (-3, 1)$, $B = (-12, 4)$. Find the point P such that $AP:PB = 1:5$.
- h) $A = (4, 2)$, $B = (7, -3)$. Find the point P such that $AP:PB = 3:7$.
- i) $A = (a, b)$, $B = (3, 10)$. $AP:PB = 1:3$, with $P = (0, 1)$. Find the values of a and b.
- j) $A = (3, 5)$, $B = (a, b)$. $AP:PB = 2:3$, with $P = (5.8, 11)$. Find the values of a and b.
- k) $A = (a, b)$, $B = (2, 7)$. $AP:PB = 1:9$, with $P = (1.5, 5.2)$. Find a and b.
- l) $A = (5, 8)$, $B = (a, b)$. $AP:PB = 2:7$, with $P = (3, 7\frac{1}{3})$. Find the values of a and b.