

Partitioning Lines (Divide Line Segments)

1. If $X(-7, 4)$ and $W(7, -17)$, find Y (*interior point*) so that the ratio of XY to YW is $3 : 4$.
2. If $D(8, 4)$ and $E(0, 20)$, find C (*interior point*) so that the ratio of EC to DE is $3 : 5$.
3. If $H(3, 7)$ and $K(12, 2.5)$, find J (*interior point*) so that the ratio of HJ to JK is $4 : 5$.
4. If $A(-10, 8)$ and $B(-8, 11)$, find C (*exterior point*) so that the ratio of BC to AB is $5 : 1$.
5. If $D(-2, 6)$ and $E(4, -6)$, find F (*exterior point*) so that the ratio of DE to EF is $3 : 5$.
6. If $A(8, -2)$ and $B(14, 6)$, find C (*exterior point*) so that the ratio of AB to BC is $5 : 2$.

Partitioning Lines (Divide Line Segments) #2

7. If $J(4, -3)$ and $K(10, 6)$, find M (*end point*) so that the ratio of JK to JM is $3 : 4$.
8. If $X(-11, -6)$ and $Y(3, 8)$, find W (*interior point*) so that the XW is $\frac{2}{7}$ of XY .
9. If $A(1, 2)$ and $C(-21, 13)$, find B (*interior point*) so that the ratio of AB to BC is $5 : 6$.
10. If $D(-8, 12)$ and $E(6, -9)$, find F (*end point*) so that the ratio of EF to DE is $3 : 7$.
11. If $M(-3, -10)$ and $N(12, 10)$, find P (*endpoint*) so that the MN is $\frac{5}{9}$ of MP .
12. If $A(4, -4)$ and $C(-1, -19)$, find B (*interior point*) so that the ratio of AB to BC is $3 : 2$.