**Classwork**

For the questions below, use the graph.

1. Plot and draw segment *AB*

*A* = (1, 2)

*B* = (3, 12)

2. Count inward from the end points *A* & *B* to the middle of the segment.

Plot the midpoint *P* of  such that the ratio of *AP* to *PB* is 1:1.

3. Plot and draw segment *CD*

*C* = (2, 2)

*D* = (8, 14)

4. Count inward 2 unit from *C* and 1 unit from *D* to the point *Q* two-thirds of the way from *C* to *D*.

Mark point *Q* such that the lengths *CQ* and *QD* have a ratio of 2:1.

*Challenge*

**5.**



**6.**

