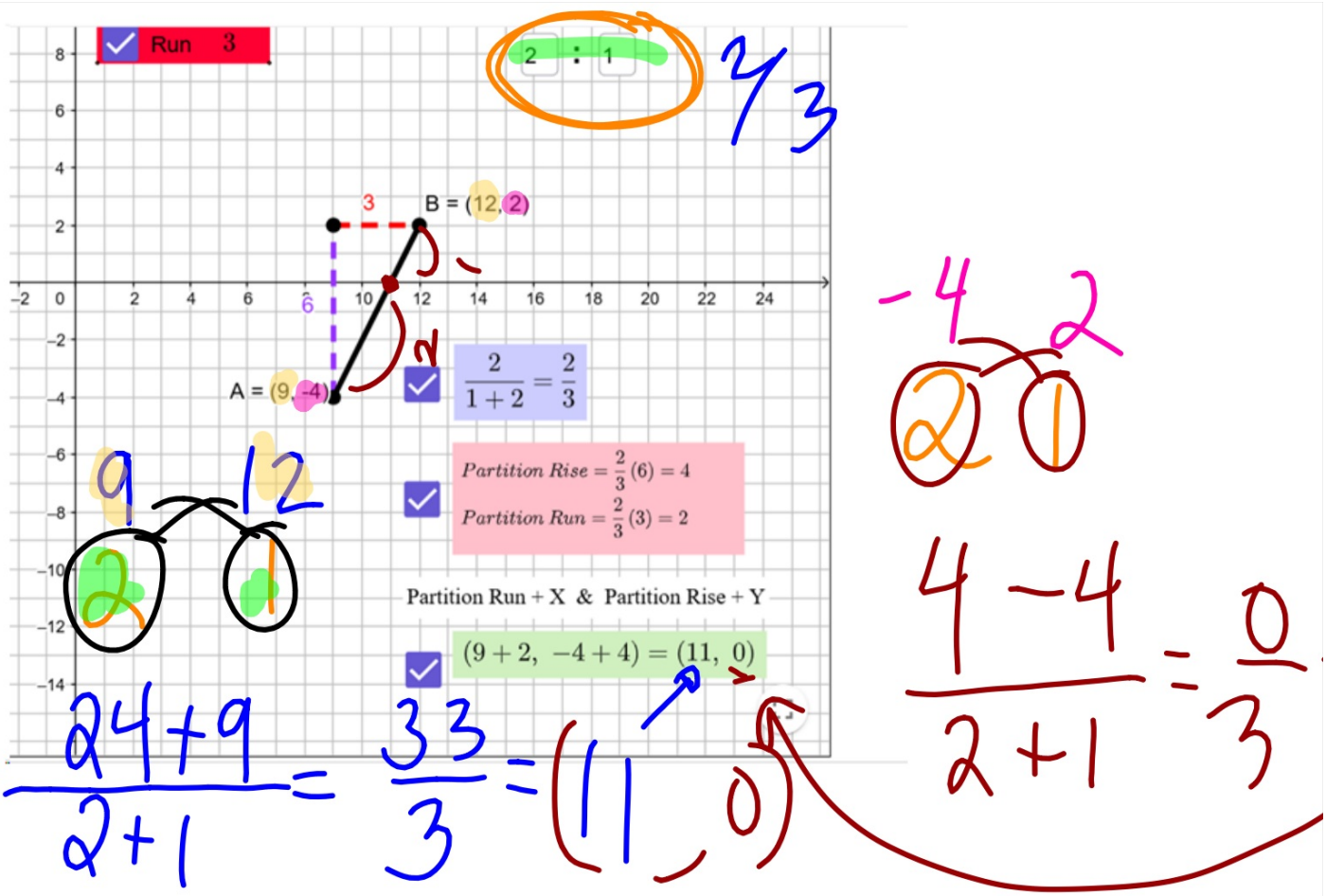
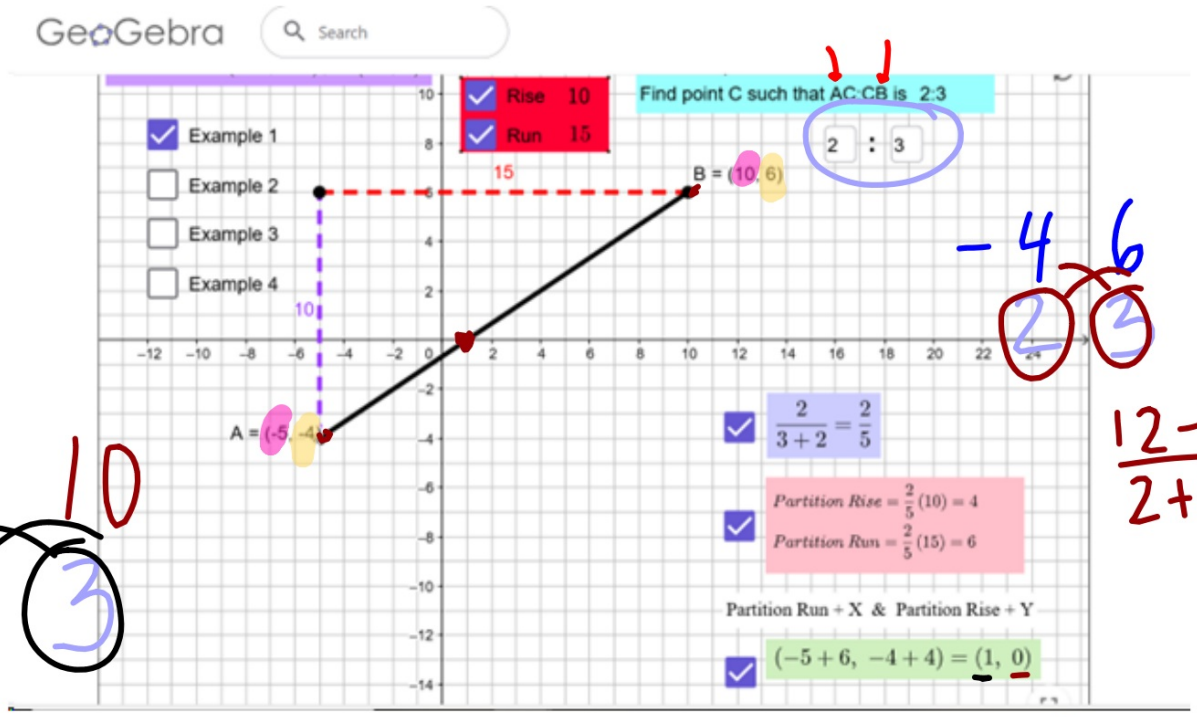
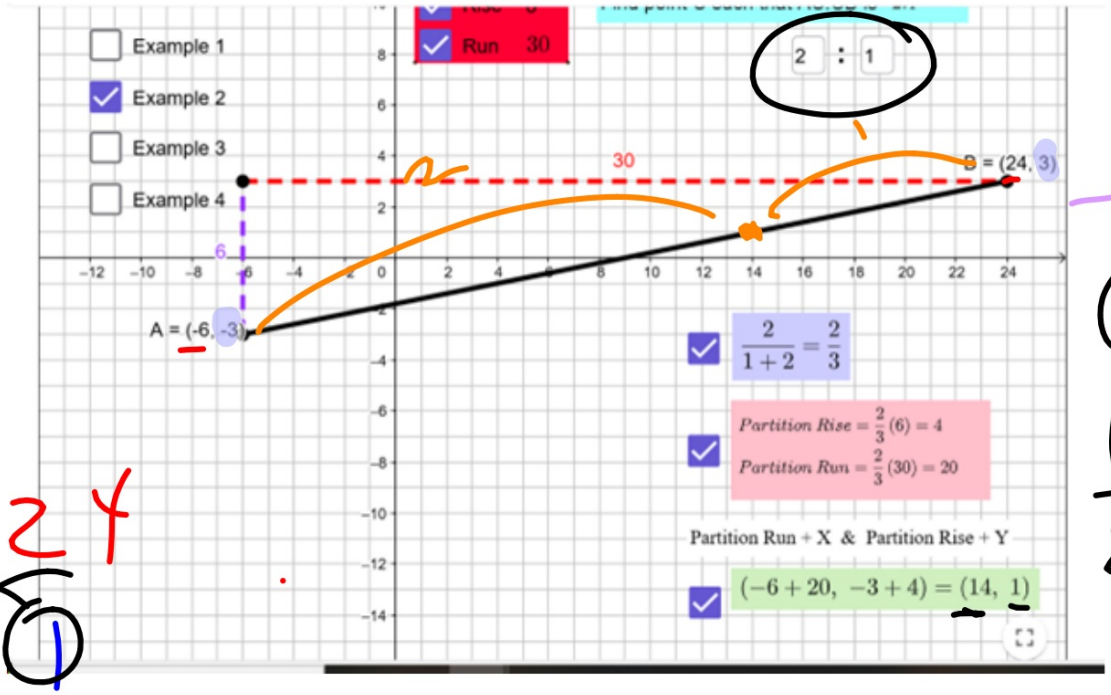

Run 3
2 : 1
B = (12, 2)
A = (9, -4)
3
6
2
$\frac{2}{1+2} = \frac{2}{3}$
$Partition\ Rise = \frac{2}{3}(6) = 4$
$Partition\ Run = \frac{2}{3}(3) = 2$
Partition Run + X & Partition Rise + Y
$(9+2,\ -4+4) = (11,\ 0)$
$\frac{24+9}{2+1} = \frac{33}{3} = (11, 0)$
$\frac{4-4}{2+1} = \frac{0}{3}$



$\frac{20-15}{2+3} = \frac{5}{5} = 1$

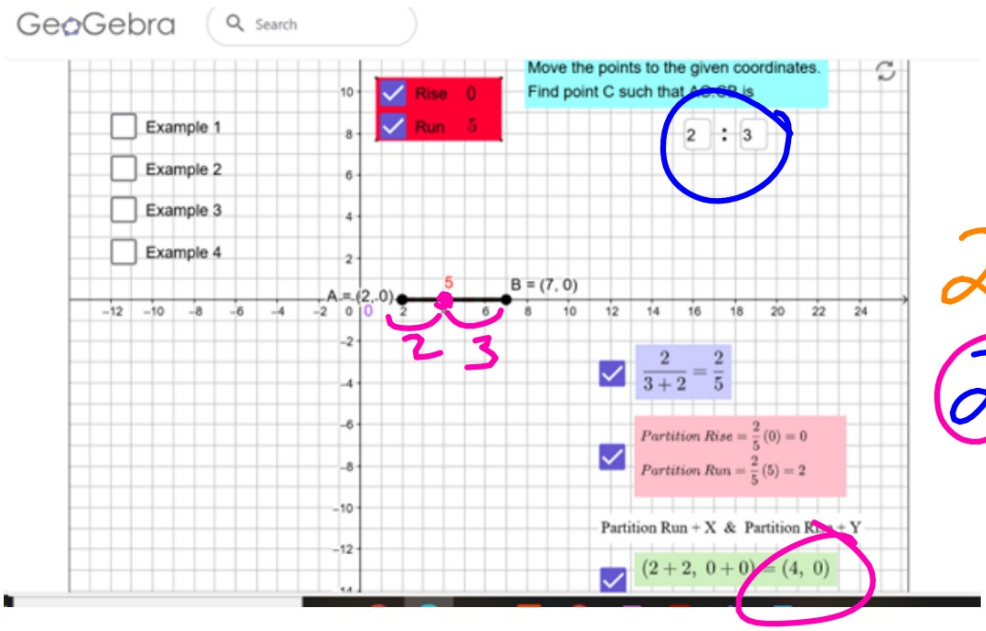
$(1, 0)$



$\frac{-6+48}{2+1} = \frac{42}{3} = 14$

$(14, 1)$

$\frac{6-3}{2+1}$

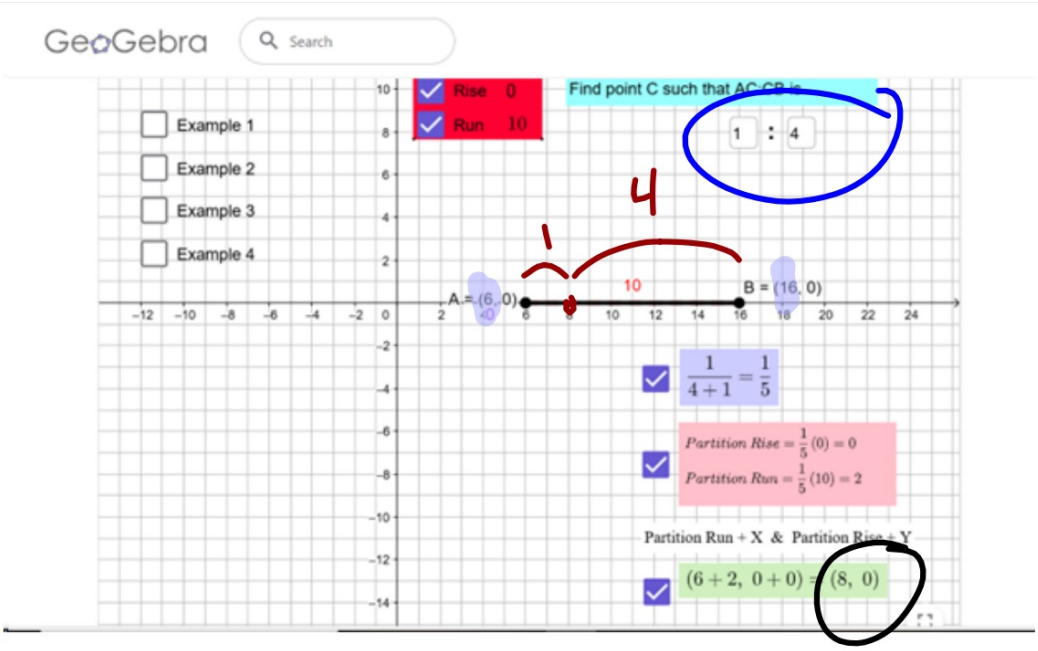


2 7

2 3

$\frac{14+6}{2+3} = \frac{20}{5}$

4



6 16

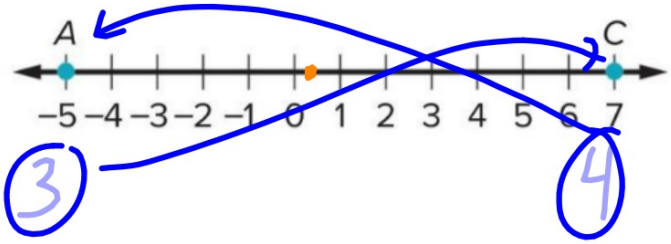
1 4

$\frac{16+24}{1+4} = \frac{4}{5}$

WB pg 23

Example 1 Locate a Point on a Number Line When Given a Ratio

Find *B* on $\overline{AC}$ such that the ratio of *AB* to *BC* is 3:4.



"Eyeglass Method"

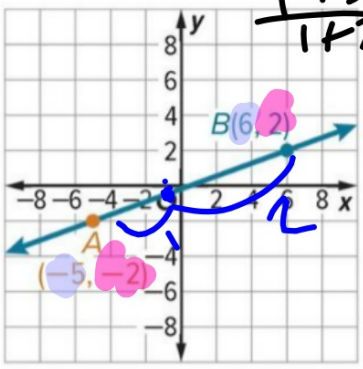
$$\frac{-20+21}{3+4} = \frac{1}{7} = 0.14$$

WB pg 25

Example 3 Locate a Point on the Coordinate Plane When Given a Ratio

Find C on $\overline{AB}$ such that the ratio of AC to CB is 1:2.

Use the Section Formula to determine the coordinates of point C.



Section Formula

Slope Method

$-5 \quad 6$

$1 \quad 2$

$\frac{-10+6}{1+2} = \frac{-4}{3}$

$-1.\overline{3}$

"Eyeglass Method"

$(-1.\overline{3}, -0.6)$

WB pg 42 *Use "Weights" method

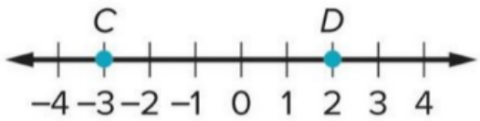
GO ONLINE

e.

Example 1 Find a Weighted Average on a Number Line

Find the coordinate of *P* that represents the weighted average for each set of points with the given conditions.

a. Point *C* weighs twice as much as point *D*.

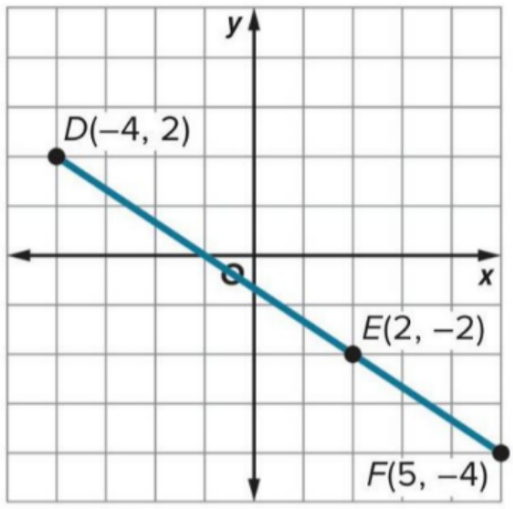


WB Pg 44 *Use "Weights Method"

Example 2 Find a Weighted Average on the Coordinate Plane

Find the coordinates of *P* that represent the weighted average of each set of points based on the given conditions.

a. Point *D* weighs twice as much as point *E*.

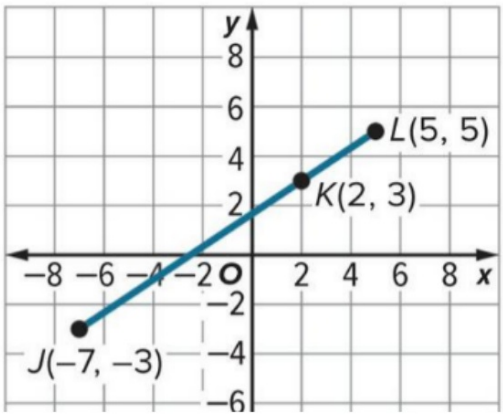


WB Pg 44 "Weights Method"

Check

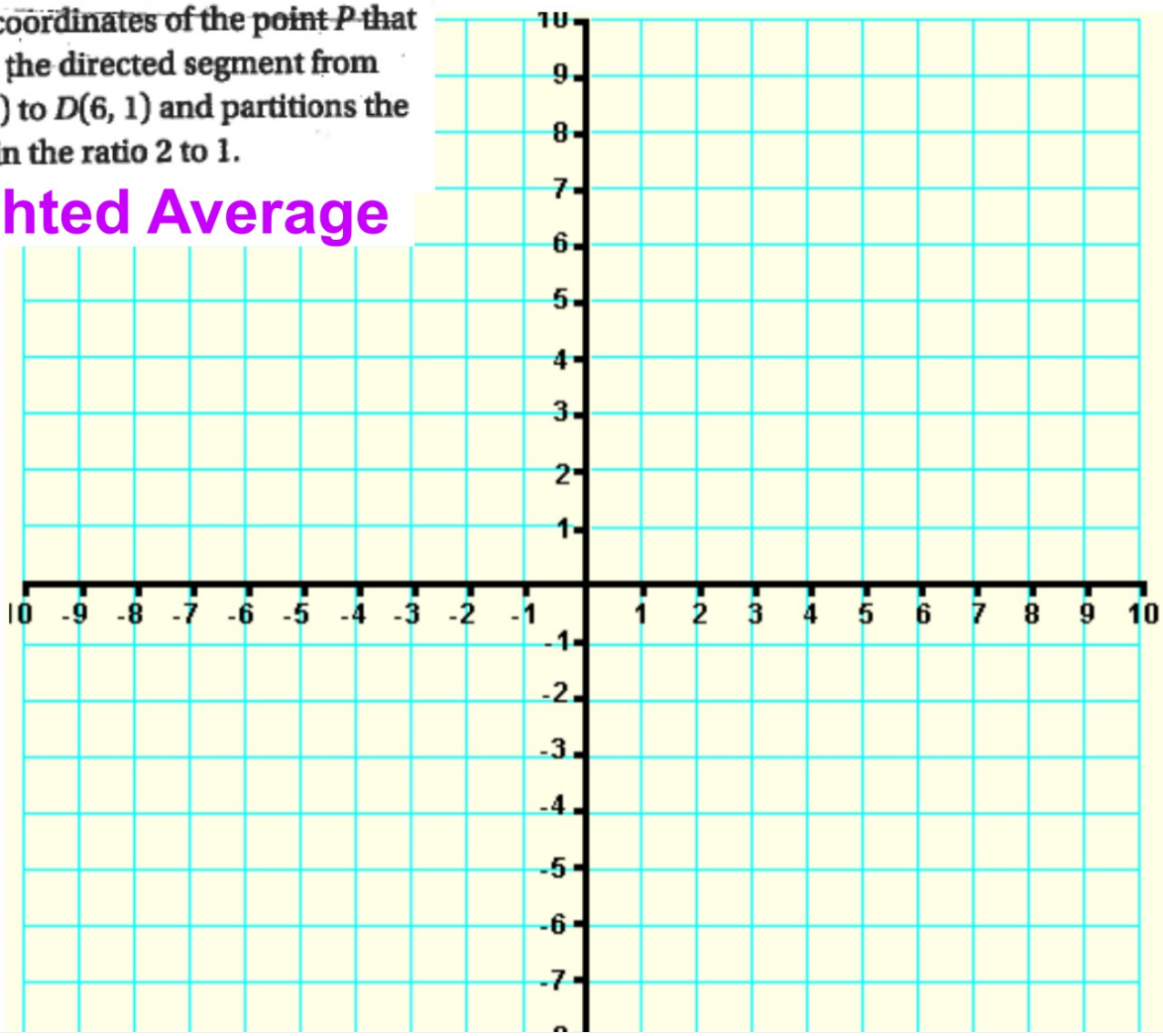
Find the coordinates of *P* that represent the weighted average for each set of points based on the given conditions.

a. Point *J* has a weight of 2, and point *K* has a weight of 3.



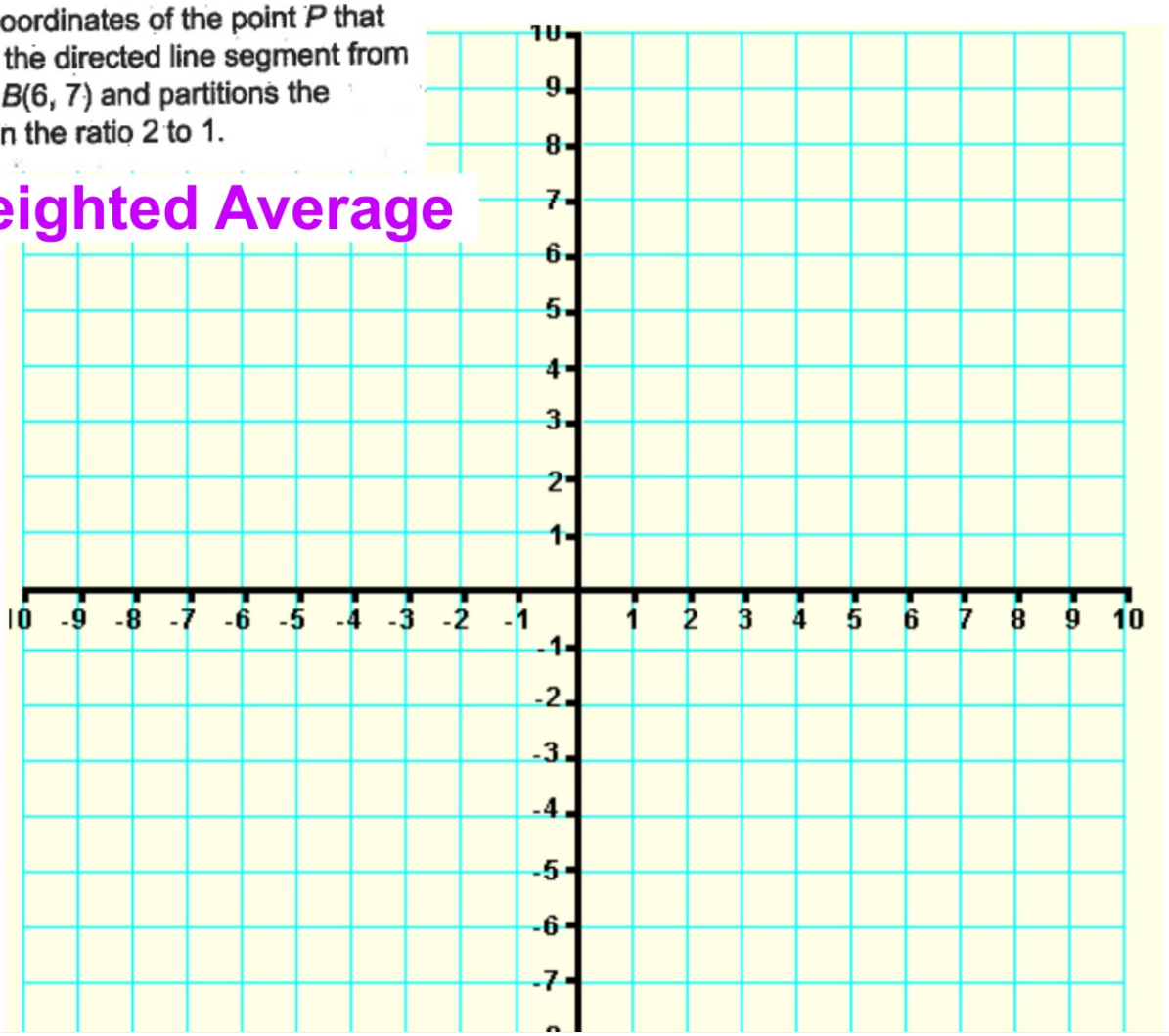
1. Find the coordinates of the point P that lies along the directed segment from $C(-3, -2)$ to $D(6, 1)$ and partitions the segment in the ratio 2 to 1.

& Weighted Average



2. Find the coordinates of the point P that lies along the directed line segment from $A(3, 1)$ to $B(6, 7)$ and partitions the segment in the ratio 2 to 1.

***And Weighted Average**



Thursday Centers to Review for Test

***Stephanides Smalls - students who haven't taken test will take it in Sanchez (Remediate from Quiz)**

***ALEKS/McGraw Hill - Partitioning/ Weighted Averages**

***Interactive Journal Foldable (segment bisector/midpoint/distance)**

***TEAMS - Module 1 Review**