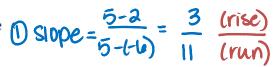
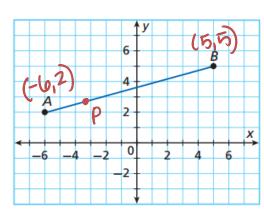
7.6 Partitions Homework Page 512 #1-2

1. Find the point P along the directed line segment from point A to point B that $0 \text{ Slope} = \frac{5-2}{5-t-6} = \frac{3}{11} \frac{(\text{rise})}{(\text{run})}$ divides the segment in the ratio 2 to 5.

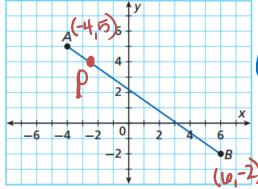




- 2 PointP is 2/7 from point A to B.
- 3 Take 3/4 of rise and run $rise = \frac{2}{7}(3) = \frac{6}{7}$ run = $\frac{2}{3}(11) = \frac{22}{7} = 3\frac{1}{7}$
- 3 Find Point P 6/2 up from 4,3/2 nght of A A (-6,2)

$$P(-6+347,2+47) = P(-3+,247)$$
or
 $P(-20/7,20/7)$

2. Find the point P along the directed line 0 Slope = $\frac{-2-5}{(e-1-4)} = \frac{-7}{10}$ $\frac{risc}{run}$ divides the segment in the ratio 1 to 6.



- 2 Point P is 1/3 away from A to B
- (3) Take 4 of rise and run

$$nse = \frac{1}{7}(-7) = -1$$

 $run = \frac{1}{7}(10) = \frac{10}{7} = \frac{13}{7}$

(6-2) 4) Point Pis I unit-down from A and 10/2 right from A

$$A(-4,5)$$
 $P(-4+1\frac{2}{7},5-1) = P(-\frac{18}{7},4)$