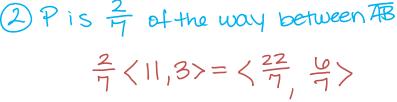
## 7.6 Partitions Homework Page 512 #1-2

**1.** Find the point *P* along the directed line segment from point *A* to point *B* that divides the segment in the ratio 2 to 5.

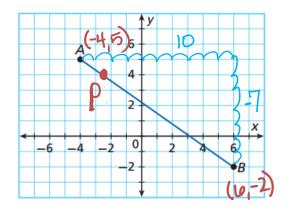


1 Vector from AtoB <11,3>



3 P is right  $\frac{22}{7}$  units and up  $\frac{6}{7}$  units  $\frac{4}{7}$   $\frac{14}{7}$   $\frac$ 

**2.** Find the point *P* along the directed line segment from point *A* to point *B* that divides the segment in the ratio 1 to 6.



- 1) vector from A to B is <10,-7>
- 2) P is  $\frac{1}{7}$  of the way by  $\overline{AB}$  $\frac{1}{7}$  < 10, -7 >  $\Rightarrow$  <  $\frac{10}{7}$ , -1 >
- 3 P is  $\frac{10}{7}$  units to the right and  $1 \frac{10}{28}$  A (-4,5)