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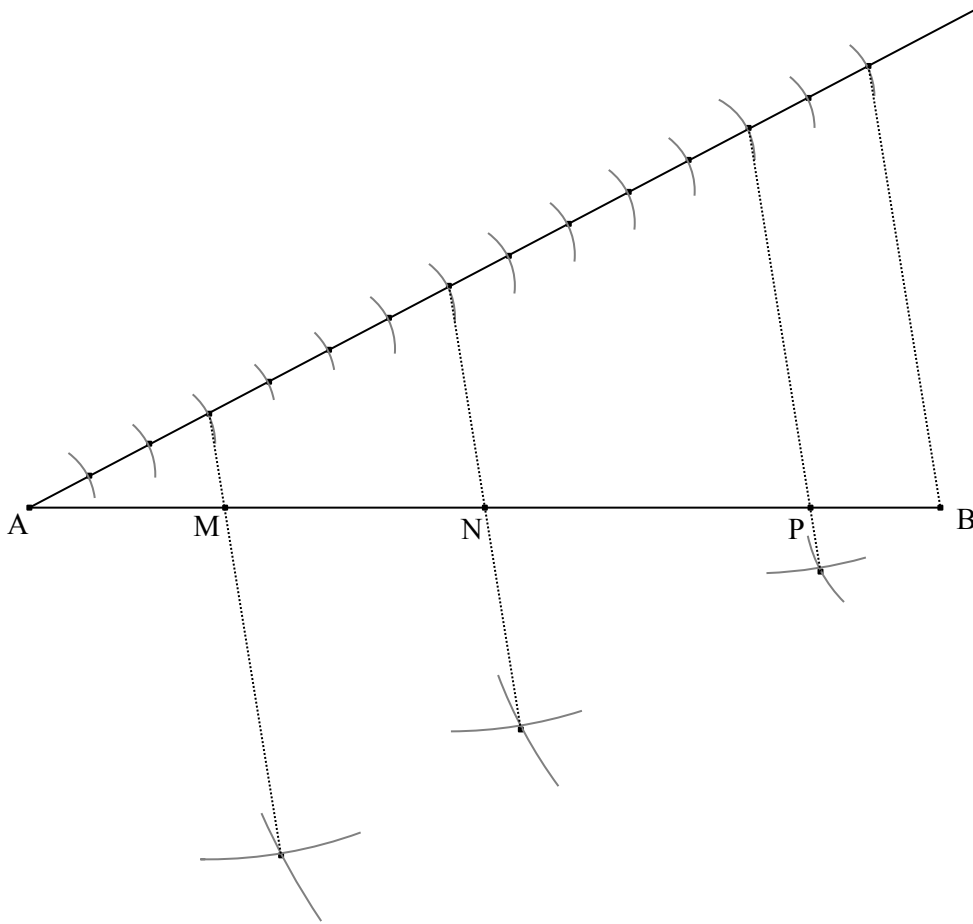
## تمرين 23 صفحة 167 :

نعتبر قطعة المستقيم  $[AB]$  حيث  $AB = 12 \text{ cm}$ .1- ابن النقاط  $M$  و  $N$  و  $P$  من  $[AB]$  في هذا الترتيب حيث :

$$\frac{AM}{3} = \frac{MN}{4} = \frac{NP}{5} = \frac{BP}{2}$$

2- أحسب  $AM$  و  $MN$  و  $NP$  و  $BP$ .

$$(1) \text{ لنا } \frac{AM}{3} = \frac{MN}{4} = \frac{NP}{5} = \frac{BP}{2} = \frac{AM + MN + NP + PB}{3+4+5+2} = \frac{AB}{14}$$



$$(2) \text{ لنا } \frac{AM}{3} = \frac{MN}{4} = \frac{NP}{5} = \frac{BP}{2} = \frac{AM + MN + NP + PB}{3+4+5+2} = \frac{AB}{14}$$

إذن

$$\begin{aligned} BP &= \frac{2}{14} AB \\ &= \frac{4}{14} \times 12 \\ &= \frac{12}{7} \text{ cm} \end{aligned}$$

$$\begin{aligned} NP &= \frac{5}{14} AB \\ &= \frac{5}{14} \times 12 \\ &= \frac{30}{7} \text{ cm} \end{aligned}$$

$$\begin{aligned} MN &= \frac{4}{14} AB \\ &= \frac{4}{14} \times 12 \\ &= \frac{24}{7} \text{ cm} \end{aligned}$$

$$\begin{aligned} AM &= \frac{3}{14} AB \\ &= \frac{3}{14} \times 12 \\ &= \frac{18}{7} \text{ cm} \end{aligned}$$

