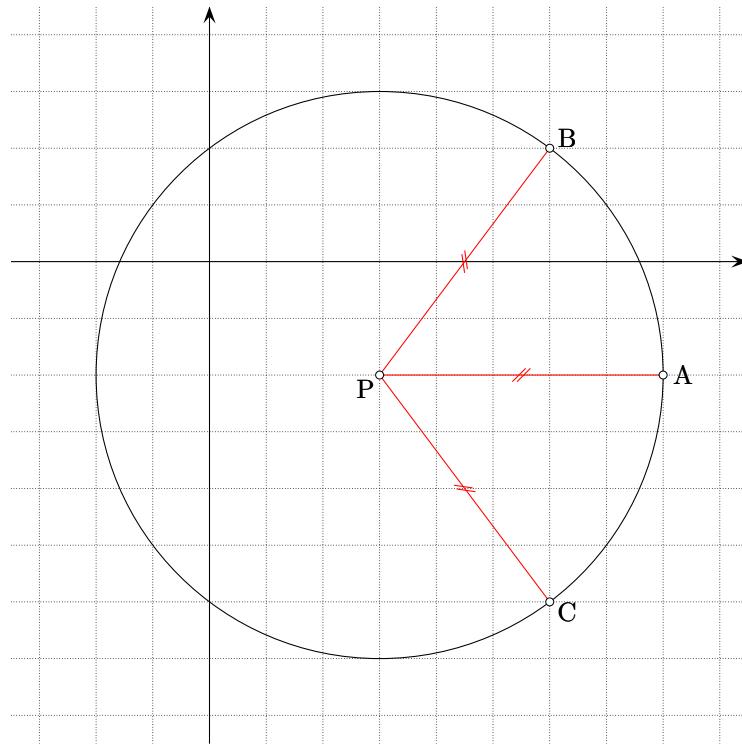


9.2



Il faut vérifier que le centre du cercle P est équidistant des points A, B et C.
En d'autres termes, on doit s'assurer que $\|\overrightarrow{PA}\| = \|\overrightarrow{PB}\| = \|\overrightarrow{PC}\|$.

$$\|\overrightarrow{PA}\| = \left\| \begin{pmatrix} 8 - 3 \\ -2 - (-2) \end{pmatrix} \right\| = \left\| \begin{pmatrix} 5 \\ 0 \end{pmatrix} \right\| = \sqrt{5^2 + 0^2} = \sqrt{25 + 0} = \sqrt{25} = 5$$

$$\|\overrightarrow{PB}\| = \left\| \begin{pmatrix} 6 - 3 \\ 2 - (-2) \end{pmatrix} \right\| = \left\| \begin{pmatrix} 3 \\ 4 \end{pmatrix} \right\| = \sqrt{3^2 + 4^2} = \sqrt{9 + 16} = \sqrt{25} = 5$$

$$\|\overrightarrow{PC}\| = \left\| \begin{pmatrix} 6 - 3 \\ -6 - (-2) \end{pmatrix} \right\| = \left\| \begin{pmatrix} 3 \\ -4 \end{pmatrix} \right\| = \sqrt{3^2 + (-4)^2} = \sqrt{9 + 16} = \sqrt{25} = 5$$