



Student : ...

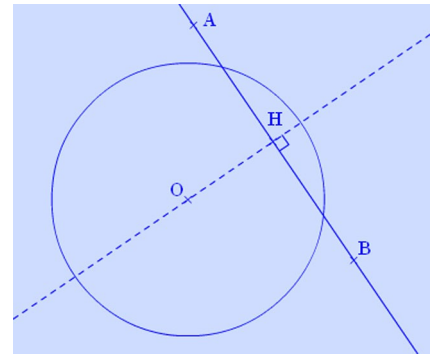
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from « Le Manuel SésaMath 4e »

I To begin / Pour commencer

1. General instruction : translate each question and then answer using the prepared blank line.
2. Find the way to start TracenPoche.
3. Don't forget to save your work frequently.

II Close to a circle and a line / Au voisinage d'un cercle et d'une droite

1. With TracenPoche, using the  button, draw a circle (C) center O and radius two units. Then draw a straight line (AB).
2. Trace the line perpendicular to (AB) passing through O and call H the intersection of these 2 lines.
3. On your opinion, how many common points can the circle (C) and the straight line (AB) have ?
List all the possible cases : for each one, specify the position of the point H with respect to the circle (C) and paste a screen copy after (key : Print Screen).
4. Using the  button, indicate the values of distances from O to (AB) in each previous case.



III Study of borderline, definition / Étude du cas limite, définition

Now move A or B to set H as a point on the circle (C).

1. Let's have a point P, distinct from H, on the straight line (AB). Why $OH < OP$?
2. Can the point P be on the circle (C) ? Explain.
3. How many points are in the intersection of the line (AB) and the circle (C) ?

IV Back to french / Retour au français

Complète en vert les pointillés des phrases suivantes :

« Soit un cercle (C) de centre O et H un point de (C). La tangente à (C) en H est la droite perpendiculaire au rayon [OH] passant par H. Le point H est le seul point On dit que H est le point de contact de la ... et du ... »