SPECTACLE LUMINEUX

À l'aube du 375° anniversaire de la ville de Montréal, les chantiers sur les différents sites s'intensifient. Sur l'un d'eux, un spectacle alliant eau et lumière aura lieu. Il est prévu qu'à partir du haut d'une structure métallique, des balles lumineuses soient projetées et qu'elles tombent dans un grand bassin où s'activent des jets d'eau au rythme d'éclairages colorés. Afin de permettre à certains spectateurs d'être assis à l'avant-plan et d'avoir une vue privilégiée sur le spectacle, une longue banquette permanente sera construite.

En respectant toutes les contraintes, ta tâche consiste à déterminer une hauteur possible du bassin d'eau ainsi que la longueur de la banquette.

Trois vues différentes du spectacle sont présentées sur la page annexe. Les sommets identifiés avec les mêmes lettres représentent le même élément dans chaque vue.

La structure métallique

Un canon projette des balles lumineuses dont la trajectoire est parabolique. Ces balles atterrissent au centre d'un grand bassin de forme cylindrique où des jets d'eau illuminés par des éclairages colorés créent un magnifique spectacle.

Le canon est installé au sommet d'une structure métallique reliée au sol par un câble de soutien. Initialement, il était prévu que la structure mesure 20 mètres, mais on a dû augmenter sa hauteur d'une certaine valeur afin que les balles projetées tombent au centre du bassin.

Le schéma ci-dessous modélise la situation.



- Le segment AC représente le sol.
- La structure est représentée par le segment AB et le câble de soutien par le segment BC.
- Le segment BE mesure 20 mètres.
- La distance au sol entre le centre de la base et le câble de soutien (AC) est de 6,25 mètres.
- DE = AE
- · AB I AC
- Le segment DE est parallèle au segment AC.

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