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Construct a unit circle ($R=1$) with center Q and tangent to a line at A . With point A as a radius point, draw arc QC of unit radius.

With point C as a radius point, draw an arc of unit radius cutting arc QC at point D .

Draw line QD , cutting the tangent line at point E .

Make EH 3 units long.

Connect H to B .

What is the length of BH ?

