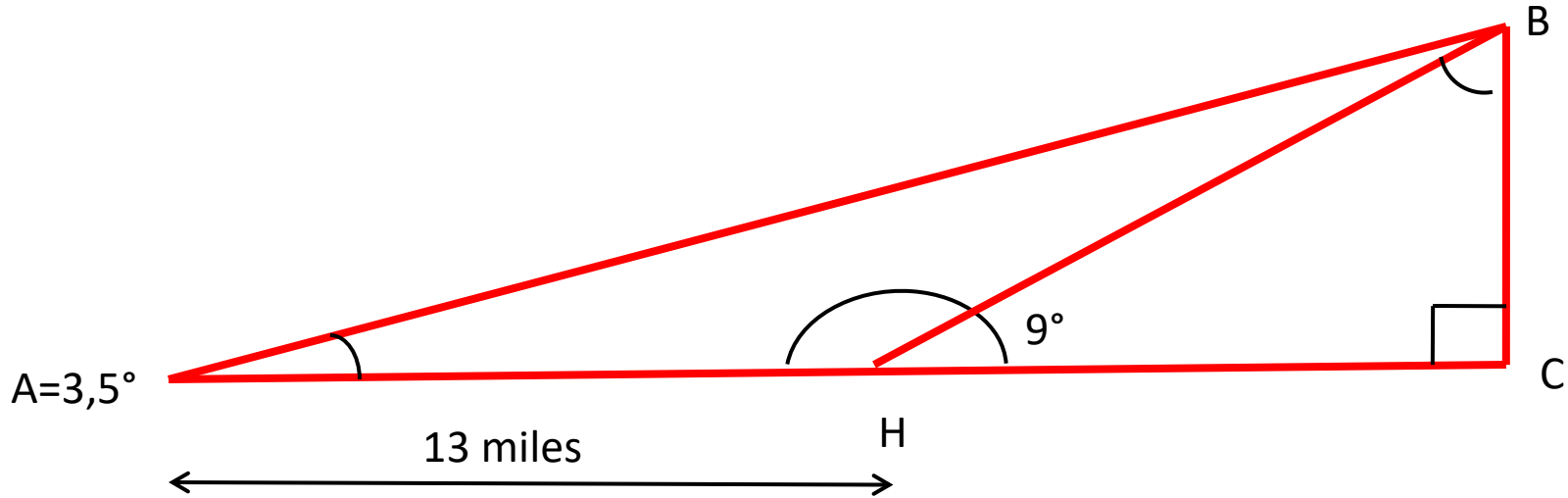


HEIGHT OF A MOUNTAIN



NOT DRAWN IN SCALE

REJO SUKSES N

1. Since the sum of all angles in a triangle is 180° , we can find the value of $\hat{A}BC$:
 $180^\circ - 90^\circ - 3,5^\circ = 86,5^\circ$
2. Now we find the value of $\hat{A}HB$, which is part of a straight angle: $180^\circ - 9^\circ = 171^\circ$
3. Now that we know this, we can find the value of $\hat{A}BH$: $180^\circ - 171^\circ - 3.5^\circ = 5.5^\circ$
4. We can finally apply the Law of Sines to find AB:
 $AB / \sin 171^\circ = AH / \sin 5.5^\circ$, which results in $AB = 21.218$ miles
5. Now we can use the first right triangle theorem to find the side the problem wants us to find: $BC = AB \cdot \sin 3.5^\circ = 1.295$.

WELL DONE