

The angle of depression from the top of a 320 foot office building to the top of a 200 foot office building is $55^{\circ}$. How far apart are the buildings?

You are in a hot air balloon that is 600 feet above the ground where you can see two people.


If the angle of depression from your line of sight to the person at $B$ is $30^{\circ}$, how far is the person from the point on the ground below the hot air balloon?


If the angle of depression from your line of sight to the person at $C$ is $20^{\circ}$, how far is the person from the point on the ground below the hot air balloon?


How far apart are the two people?

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1648.5-1039.2
$$

$$
609.3 \mathrm{ft}
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