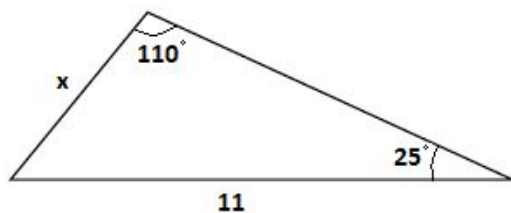
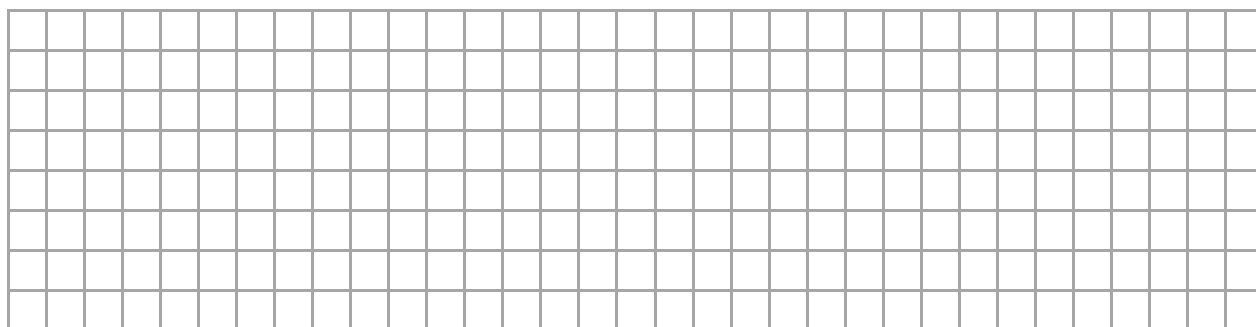
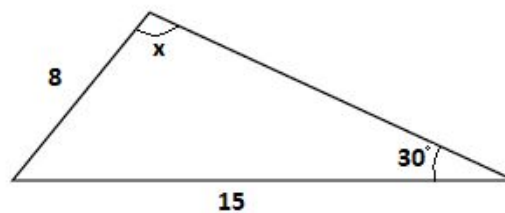


5 For each of the following, find the value of x using the sine rule.

a



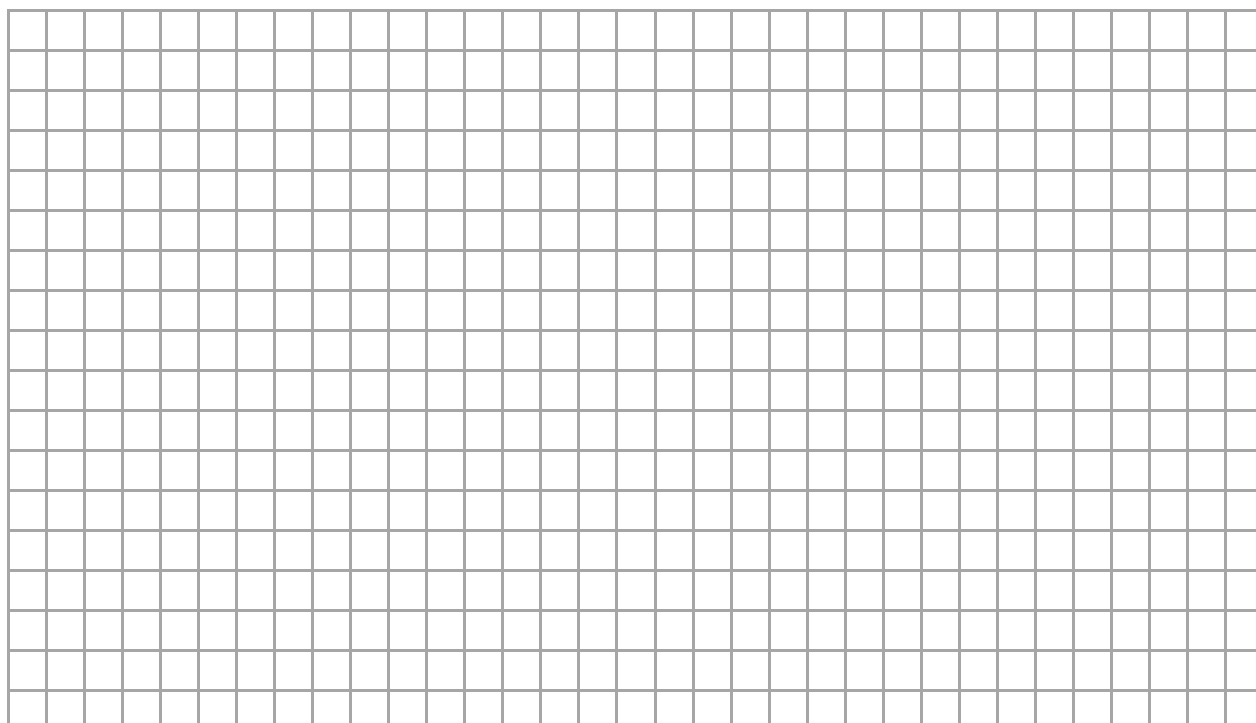
b



6 A plane takes off from the airport and flies for 17km due south. It then turns to head on a bearing of 210 degrees, and travels for a an additional 40km.

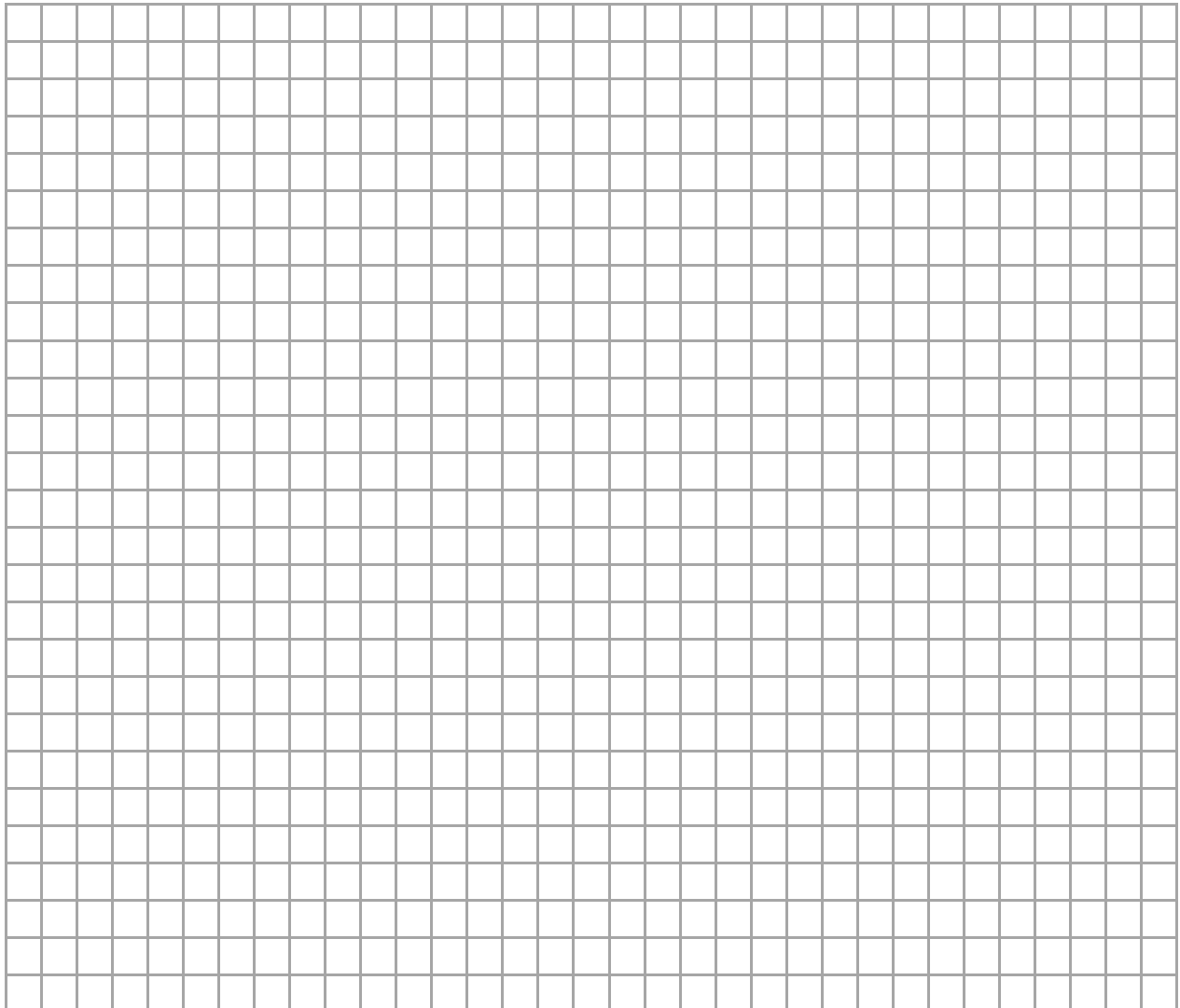
a How far from the airport is the plane?

b From the airport, what is the bearing to the plane?



7 From the foot of the Eiffel tower I have to look upwards at an angle of 17° to sight the top of a tree. From the top of the Eiffel tower, which is 300m tall, I have to look down at an angle of 81° below the horizontal to sight the tree top.

- a How tall is the tree?
- b How far away from the base of the Eiffel tower is the tree?
- c If I was standing on the platform, only 55.5m of the way up the tower, at what angle would I have to look down below the horizontal to sight the top of the tree?



Name _____

Class _____

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