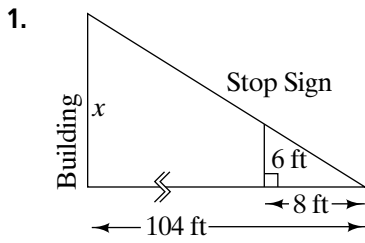


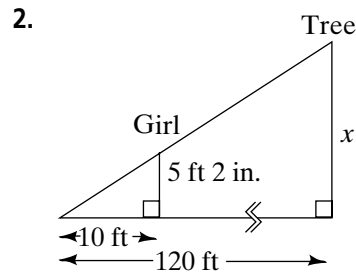
# Practice 4-7

## Similarity and Indirect Measurement

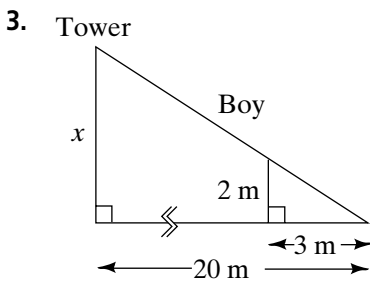
In each figure, find  $x$ .



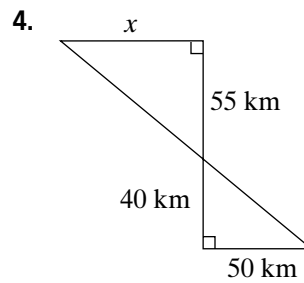
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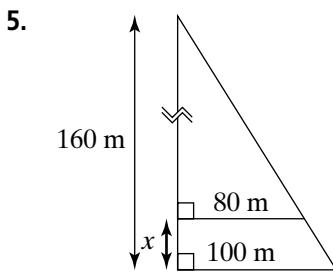
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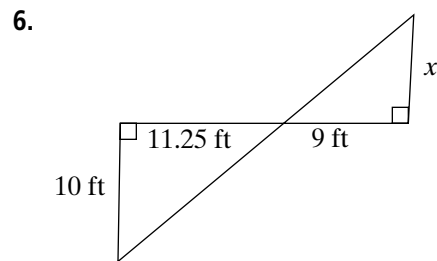
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**Solve.**

7. An office building 55 ft tall casts a shadow 30 ft long. How tall is a person standing nearby who casts a shadow 3 ft long?

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8. A 20-ft pole casts a shadow 12 ft long. How tall is a nearby building that casts a shadow 20 ft long?

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9. A fire tower casts a shadow 30 ft long. A nearby tree casts a shadow 8 ft long. How tall is the fire tower if the tree is 20 ft tall?

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10. A house casts a shadow 12 m long. A tree in the yard casts a shadow 8 m long. How tall is the tree if the house is 20 m tall?

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