

Solve a problem involving a special right triangle.

1. Given a 30-60-90 right triangle, where $m\angle A = 60$, $m\angle B = 30$, and $\angle C$ is a right angle:
If $AC = 12$, find BC .
2. Given a 30-60-90 right triangle, where $m\angle A = 60$, $m\angle B = 30$, and $\angle C$ is a right angle:
If $AC = \sqrt{5}$, find BC .
3. Given a 30-60-90 right triangle, where $m\angle A = 60$, $m\angle B = 30$, and $\angle C$ is a right angle:
If $BC = \sqrt{3}$, find AC .
4. Given a 30-60-90 right triangle, where $m\angle A = 60$, $m\angle B = 30$, and $\angle C$ is a right angle:
If $BC = 3$, find AC .
5. Given a 30-60-90 right triangle, where $m\angle A = 60$, $m\angle B = 30$, and $\angle C$ is a right angle:
If $BC = 12$, find AC .
6. Given a 30-60-90 right triangle, where $m\angle A = 60$, $m\angle B = 30$, and $\angle C$ is a right angle:
If $BC = 1$, find AC .
7. Given a 30-60-90 right triangle, where $m\angle A = 60$, $m\angle B = 30$, and $\angle C$ is a right angle:
If $BC = 5$, find AC .
8. Given a 30-60-90 right triangle, where $m\angle A = 60$, $m\angle B = 30$, and $\angle C$ is a right angle:
If $AB = 2$, find AC .
9. Given a 45-45-90 right triangle ($\triangle XYZ$), where $\angle Y$ is a right angle:
If $XY = 7$, find YZ .
10. Given a 45-45-90 right triangle ($\triangle XYZ$), where $\angle Y$ is a right angle:
If $XY = \sqrt{2}$, find XZ .
11. Given a 45-45-90 right triangle ($\triangle XYZ$), where $\angle Y$ is a right angle:
If $YZ = \frac{\sqrt{6}}{2}$, find XZ .
12. Given a 45-45-90 right triangle ($\triangle XYZ$), where $\angle Y$ is a right angle:
If $XZ = 5\sqrt{2}$, find XY .
13. Given a 45-45-90 right triangle ($\triangle XYZ$), where $\angle Y$ is a right angle:
If $XZ = 2$, find XY .
14. Given a 45-45-90 right triangle ($\triangle XYZ$), where $\angle Y$ is a right angle:
If $XZ = 1$, find YZ .