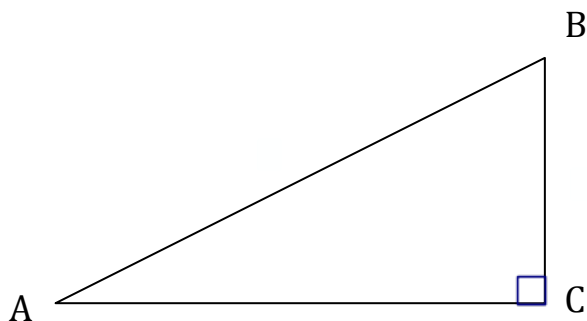


Algebra

AO47-Inverse Trigonometric Functions

Given the measures of two sides, find the measure of the indicated angle to the nearest tenth.



1. Given $\overline{AB} = 6$ and $\overline{BC} = 5$, what is $m\angle A$? A) 33.6 B) 39.8 C) 56.4 D) 74.1	6. Given $\overline{AB} = 5$ and $\overline{BC} = 4$, what is $m\angle A$? A) 36.9 B) 38.7 C) 53.1 D) 60
2. Given $\overline{AC} = 6$ and $\overline{BC} = 2\sqrt{3}$, what is $m\angle B$? A) 25.2 B) 30.0 C) 60 D) 79.1	7. Given $\overline{AC} = 21$ and $\overline{BC} = 7$, what is $m\angle B$? A) 18.4 B) 19.5 C) 70.5 D) 71.6
3. Given $\overline{AB} = 6\sqrt{2}$ and $\overline{BC} = 6$, what is $m\angle A$? A) 6 B) 35.3 C) 39.9 D) 45	8. Given $\overline{AC} = 20$ and $\overline{AB} = 25$, what is $m\angle A$? A) 36.9 B) 38.7 C) 51.3 D) 53.1
4. Given $\overline{AB} = 10$ and $\overline{BC} = 5\sqrt{2}$, what is $m\angle B$? A) 7.1 B) 45 C) 60 D) 81.4	9. Given $\overline{BC} = 2$ and $\overline{AC} = \sqrt{3}$, what is $m\angle B$? A) 30 B) 40.9 C) 49.1 D) 60
5. Given $\overline{AB} = 8\sqrt{3}$ and $\overline{BC} = 4\sqrt{3}$, what is $m\angle A$? A) 1.0 B) 30 C) 60 D) 71.6	10. Given $\overline{AC} = 5$ and $\overline{AB} = 13$, what is $m\angle A$? A) 21.0 B) 22.6 C) 67.4 D) 69.0