

Right triangle trigonometry

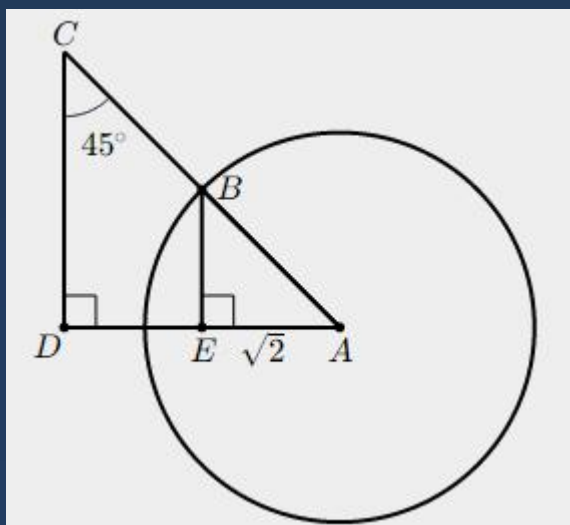


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1. The length of AE is $2\sqrt{2}$ in the figure shown at left. What is the length of BE ?

- A. 1
- B. $\sqrt{2}$
- C. $\frac{\sqrt{2}}{2}$
- D. $\frac{1}{2}$

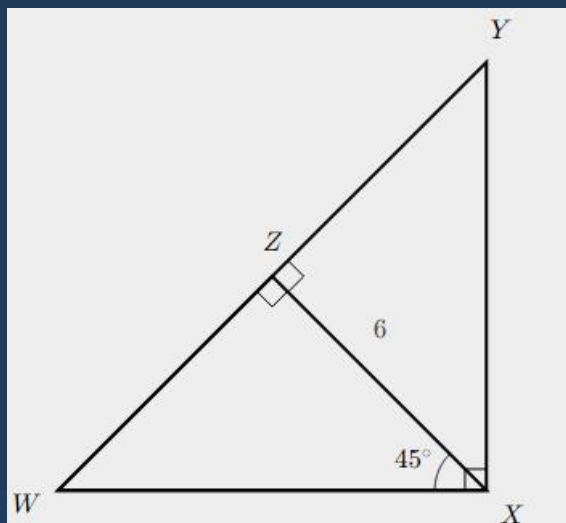


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2. What is the length of XY in the figure shown at left?

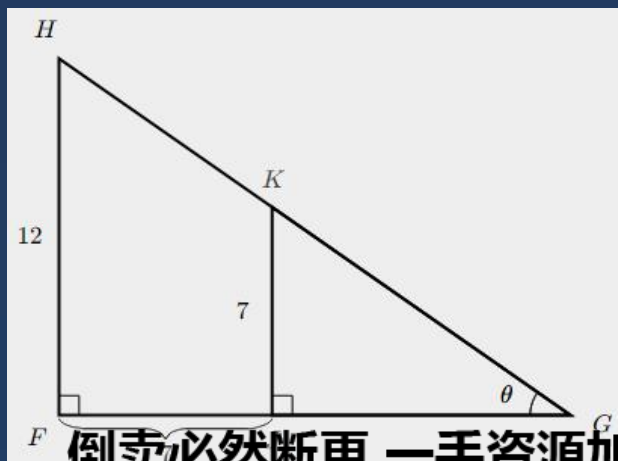
- A. 6
- B. $4\sqrt{3}$
- C. $6\sqrt{2}$
- D. 12



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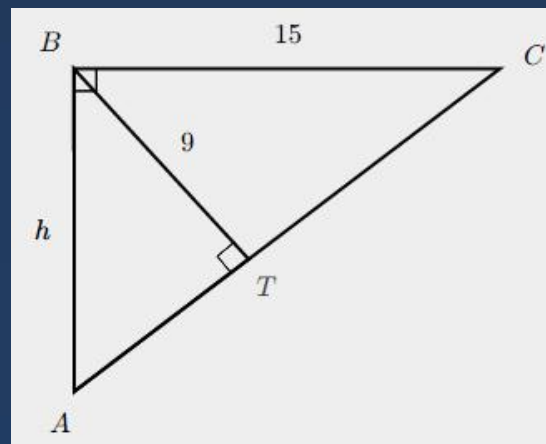
3. In the figure above, FH has length 12, JK has length 7, and the measure of angle $\angle FGH$ is θ radians. It is given that $\frac{5}{7} \approx \tan(0.62) \approx \cot(0.95) \approx \sin(0.80) \approx \cos(0.78)$. Approximately what is the value of θ in radians to the nearest hundredth?



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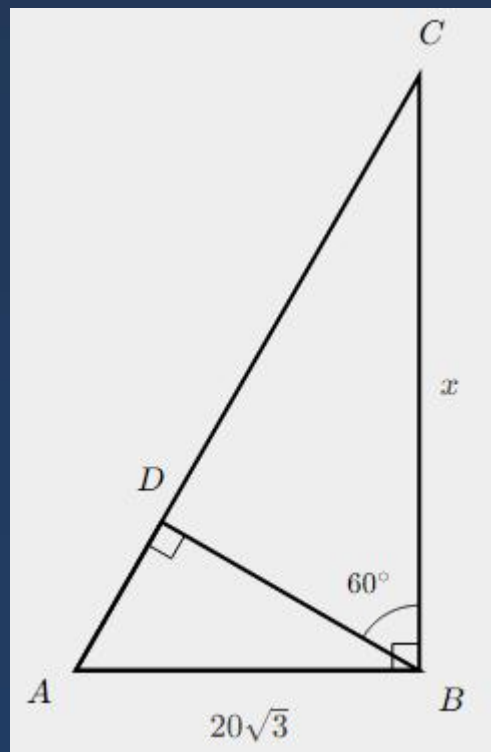
4. In the figure at left, line segment AB is vertical and BC is horizontal. Line segment BT has length 9 and is perpendicular to AC . The length of BC is 15. Approximately what is the value of h , to the nearest integer?



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5. What is the value of x in the figure shown at left?

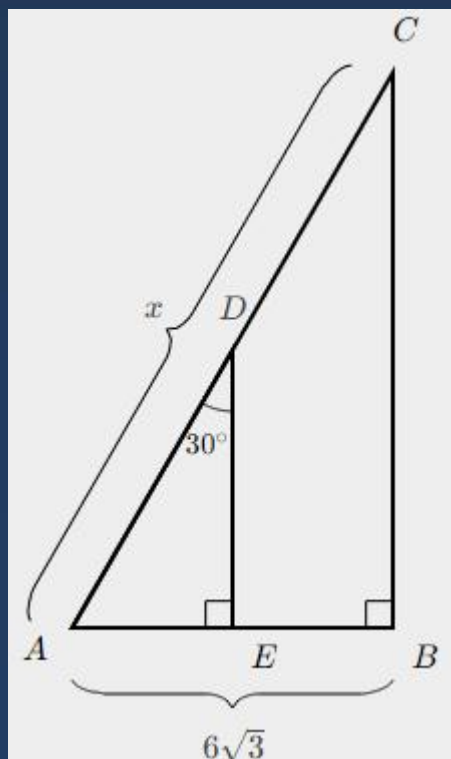


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6. What is the value of x in the figure shown to the left?

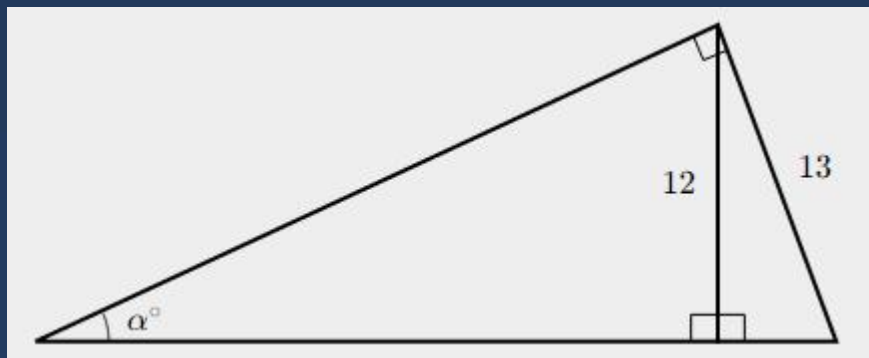
- A. $3\sqrt{3}$
- B. 12
- C. 18
- D. $12\sqrt{3}$



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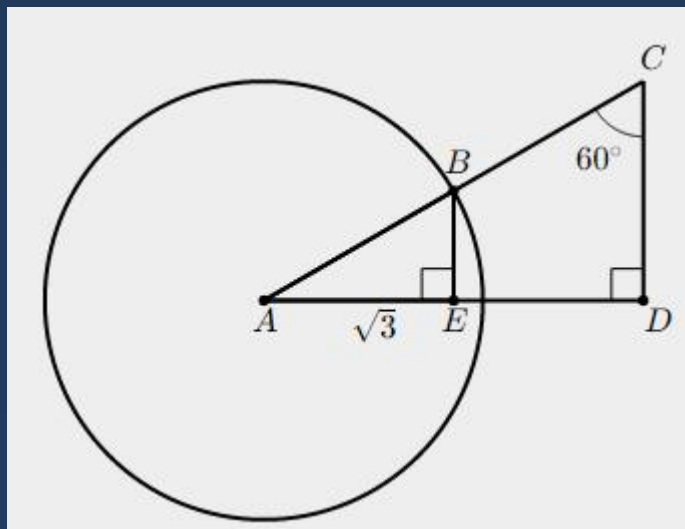
7. Given that $\frac{12}{13} \approx \tan(42.7^\circ) \approx \sin(67.4^\circ) \approx \cos(22.6^\circ)$,
approximately what is the value of α , to the
nearest integer?



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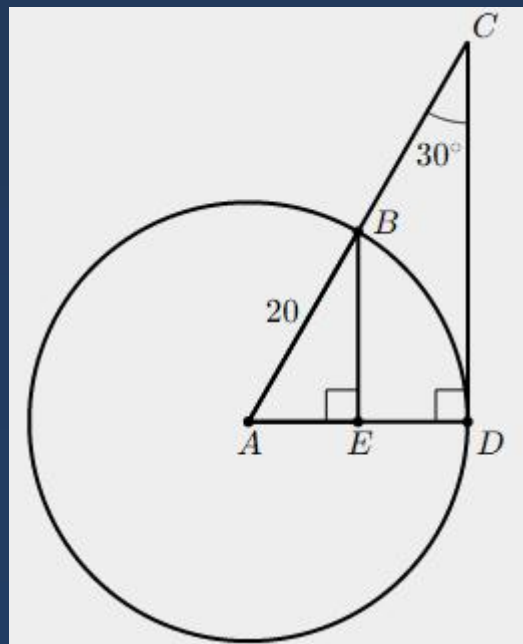
8. The length of AE is $3\sqrt{3}$ in the figure shown at left. What is the length of AB ?



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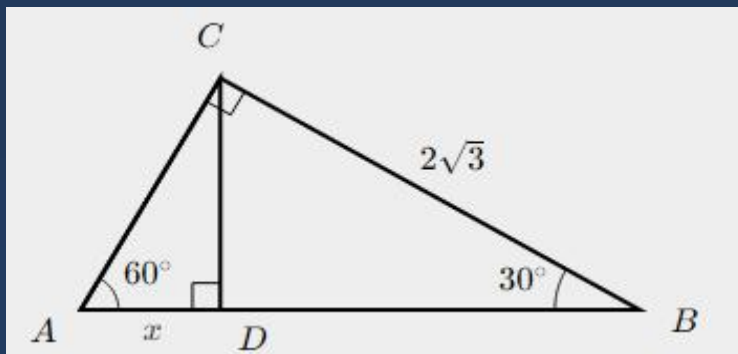
9. The length of AB is 20 in the figure shown at left. What is the length of AE ?



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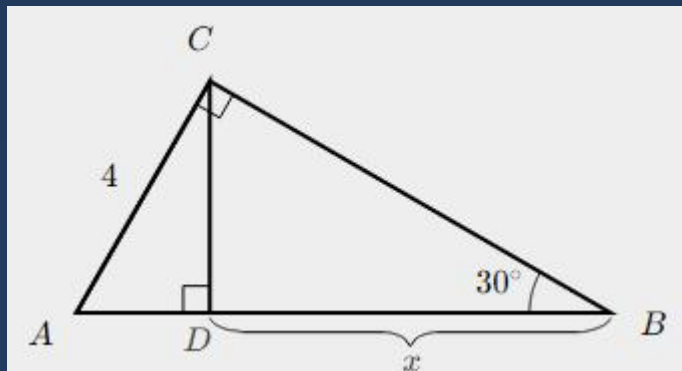
10. What is the value of x in the figure shown at left?



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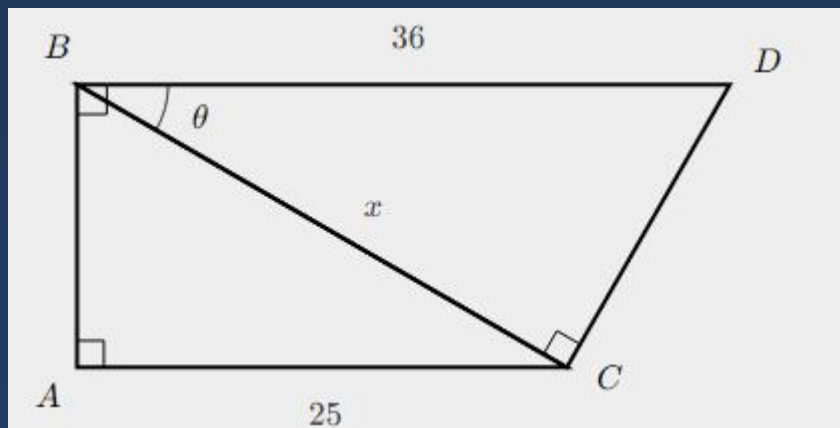
11. What is the value of x in the figure shown at left?



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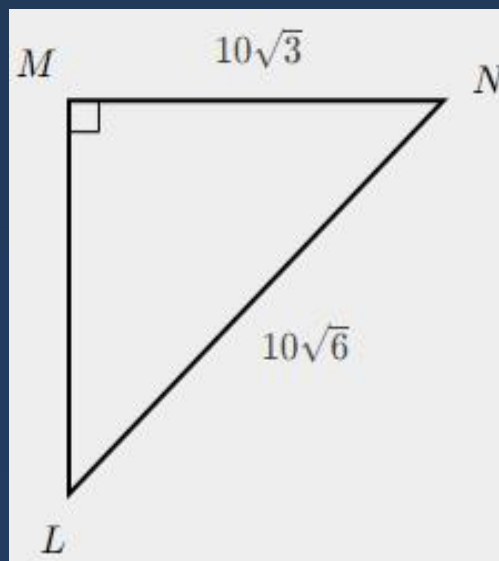
12. What is the value of x in the figure shown above?



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13. What is the measure in degrees of $\angle MLN$ in the figure shown at left?



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