

Trigonometry

Name: _____

Study Guide 18

Class: _____

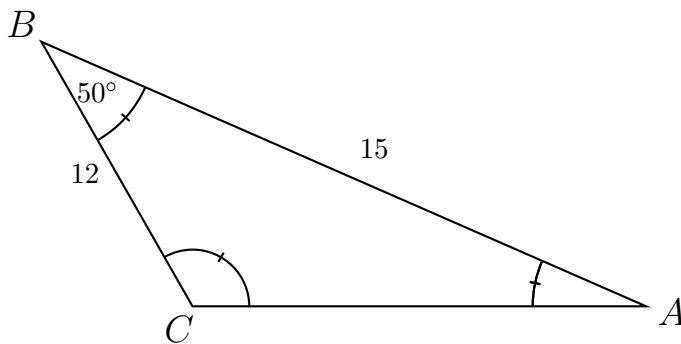
Due Date: _____

Score: _____

No Work \Leftrightarrow No Points

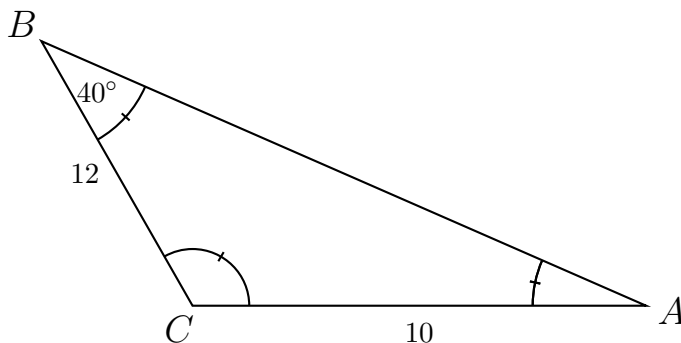
Use Pencil Only \Leftrightarrow Be Neat & Organized

1. (3 points) Solve the triangle below using the given information. Round all answers to a whole number.



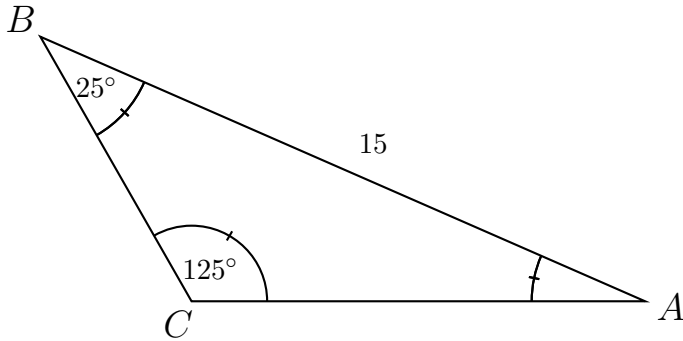
1. _____

2. (6 points) Solve the triangle below using the given information. Round all answers to a whole number.



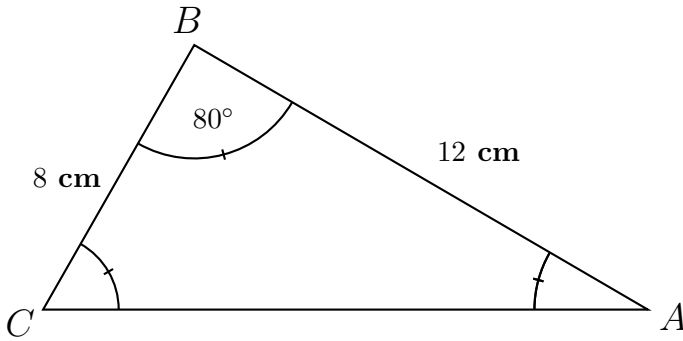
2. _____

3. (6 points) Solve the triangle below using the given information. Round all answers to a whole number.



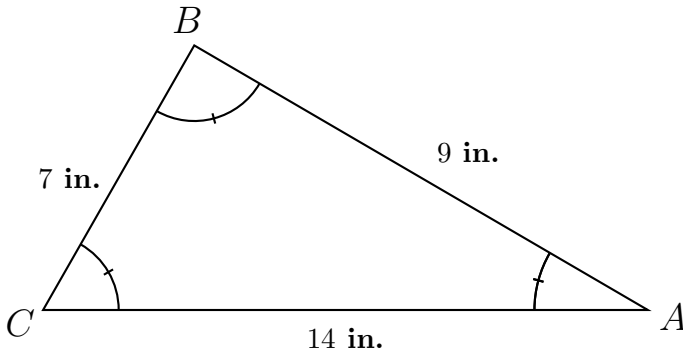
3. _____

4. (3 points) Find the area of the triangle below. Round final answer to a whole number.



4. _____

5. (3 points) Find the area of the triangle below. Round final answer to a whole number.



5. _____

6. (5 points) The bearing from point A to point B is S 55° E, and the bearing from point B to point C is N 35° E. If a ship sails from A to B, a distance of 81 km, and then from B to C, a distance of 74 km, how far is it from A to C? Drawing required.

6. _____

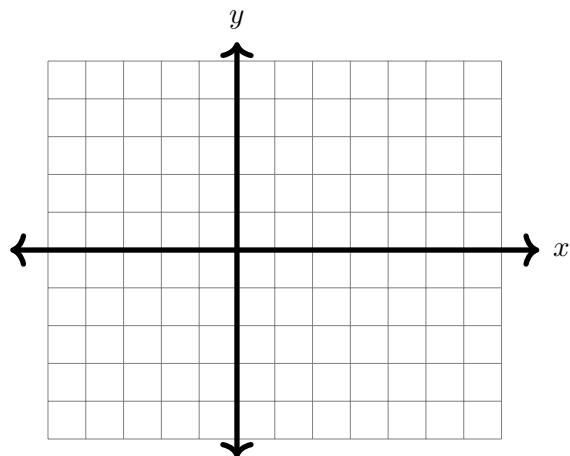
7. (5 points) A ship travels 14 miles on a bearing of 21° , and then it travels on a bearing of 111° for 20 miles, how far is it from its starting point? Drawing required.

7. _____

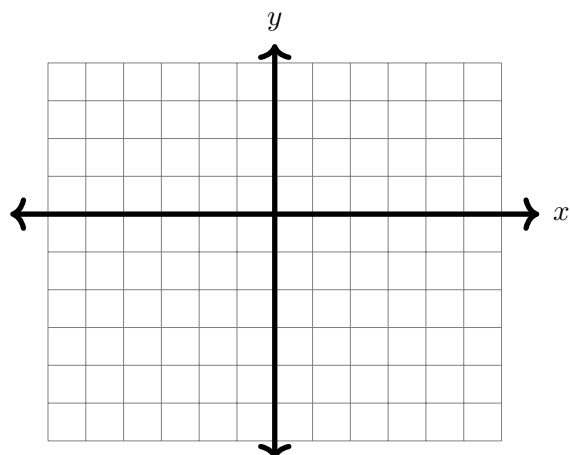
8. (4 points) Find the exact value of $\tan \frac{x}{2}$ given that $\sin x = -\frac{4}{5}$, and $\pi < x < \frac{3\pi}{2}$.

8. _____

9. (5 points) Graph $y = -2\sec^{-1}(x - 1)$, and clearly mark relevant information.



10. (5 points) Graph $y = -\frac{1}{2}\csc^{-1}\frac{x}{2}$, and clearly mark relevant information.



11. (5 points) Graph $y = \pi + \cot^{-1}(x + 2)$, and clearly mark relevant information.

