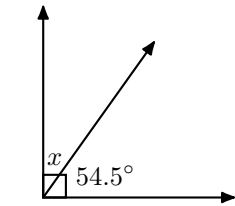
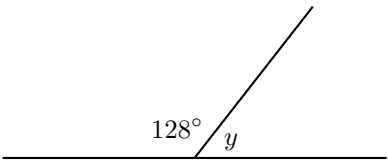


I. Solve each problem completely.

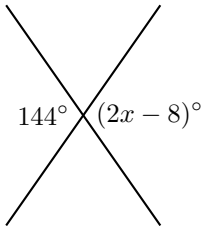
- 1. What is the complement of 36° ?
- 2. Solve for x :



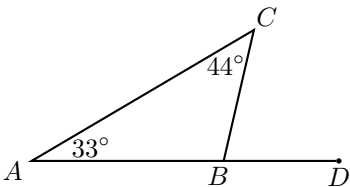
- 3. Find the value of y :



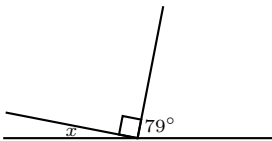
- 4. In $\triangle ABC$, $\angle A = 48^\circ$ and $\angle B = 36^\circ$. What is the measure of $\angle C$?
- 5. Solve for x :



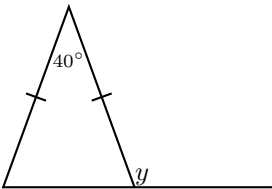
- 6. What is the measure of $\angle CBD$?



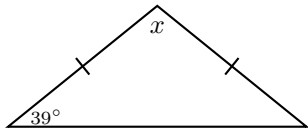
- 7. What is the value of x ?



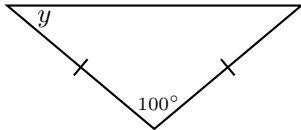
- 8. Solve for y :



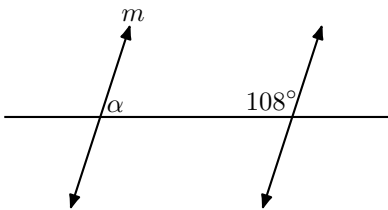
- 9. Solve for x :



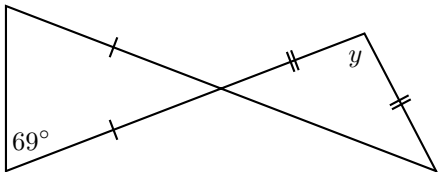
- 10. Solve for y :



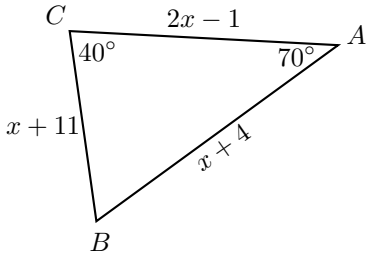
- 11. In the figure, if $m \parallel n$, what is the measure of $\angle \alpha$?



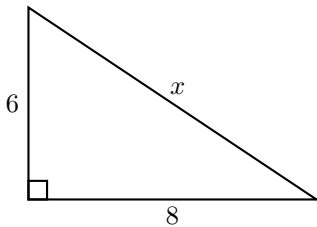
- 12. What is the measure of angle y ?



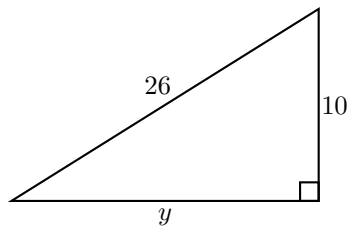
- 13. An exterior angle adjacent to the base of an isosceles triangle is 150° . What is the measure of its vertex angle?
- 14. What is the measure of side AC ?



- 15. Find the measure of x :

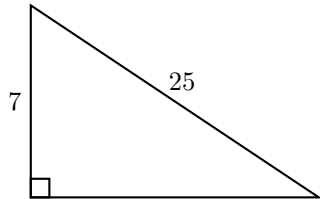


16. Find y :

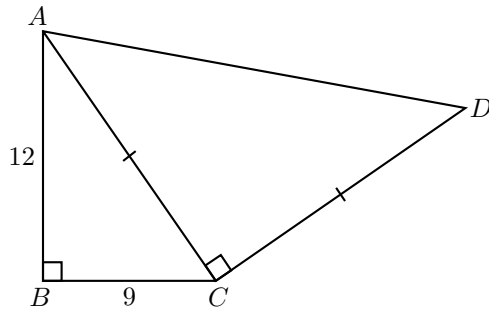


17. A 15-foot ladder is leaning against a wall. If the foot of the ladder is 9 ft away from the base of the wall, how high up the wall does the ladder reach?

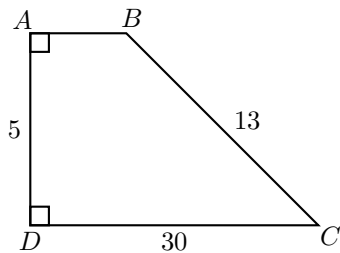
18. Find the area of the given triangle.



19. Solve for AD .

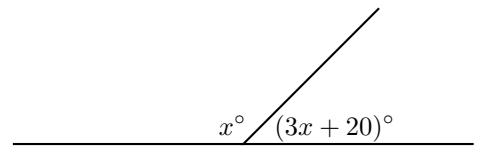


20. Solve for AB .

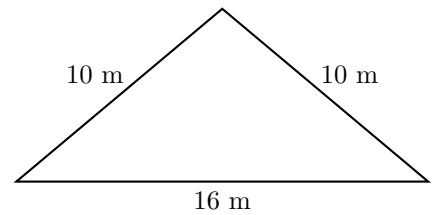


II. Show your solution.

1. Solve for x :



2. Find the area of the given triangle.



3. Two hikers started at the same location. One traveled 4 miles east and then 2 miles north. The other traveled 2 miles west and then 6 miles north. At the end of their hikes, how many miles apart were the two hikers?

4. Find the measure of $\angle ABC$.

