

Name: _____

Date: _____

Triangle Angles

Grades 6 – 8 • 50 questions • Show your work

1. In a right triangle, one acute angle measures 52° . Find the **other acute angle**.

 2. Two angles of a triangle measure 23° and 20° . Find the **third angle**. _____
 3. The two remote interior angles of a triangle measure 78° and 79° . Find the **exterior angle**. _____
 4. In a right triangle, one acute angle measures 26° . Find the **other acute angle**. _____
 5. In a right triangle, one acute angle measures 74° . Find the **other acute angle**.

 6. The two remote interior angles of a triangle measure 77° and 66° . Find the **exterior angle**. _____
 7. Two angles of a triangle measure 87° and 43° . Find the **third angle**. _____
 8. The two remote interior angles of a triangle measure 65° and 34° . Find the **exterior angle**. _____
 9. The two remote interior angles of a triangle measure 78° and 44° . Find the **exterior angle**. _____
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10. The two remote interior angles of a triangle measure 25° and 46° . Find the exterior angle. _____
11. The two remote interior angles of a triangle measure 52° and 33° . Find the exterior angle. _____
12. Two angles of a triangle measure 75° and 36° . Find the **third angle**. _____
13. In a right triangle, one acute angle measures 77° . Find the **other acute angle**.

14. In a right triangle, one acute angle measures 58° . Find the **other acute angle**.

15. The two remote interior angles of a triangle measure 31° and 62° . Find the exterior angle. _____
16. Two angles of a triangle measure 48° and 23° . Find the **third angle**. _____
17. In a right triangle, one acute angle measures 66° . Find the **other acute angle**. _____
18. In a right triangle, one acute angle measures 59° . Find the **other acute angle**. _____
19. In a right triangle, one acute angle measures 80° . Find the **other acute angle**. _____
20. Two angles of a triangle measure 78° and 33° . Find the **third angle**. _____
21. Two angles of a triangle measure 27° and 56° . Find the **third angle**. _____
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- 22.** Two angles of a triangle measure 68° and 34° . Find the **third angle**. _____
- 23.** Two angles of a triangle measure 75° and 25° . Find the **third angle**. _____
- 24.** The two remote interior angles of a triangle measure 76° and 75° . Find the **exterior angle**. _____
- 25.** Two angles of a triangle measure 28° and 77° . Find the **third angle**. _____
- 26.** The two remote interior angles of a triangle measure 48° and 21° . Find the **exterior angle**. _____
- 27.** The two remote interior angles of a triangle measure 58° and 79° . Find the **exterior angle**. _____
- 28.** Two angles of a triangle measure 59° and 34° . Find the **third angle**. _____
- 29.** Two angles of a triangle measure 95° and 39° . Find the **third angle**. _____
- 30.** Two angles of a triangle measure 80° and 69° . Find the **third angle**. _____
- 31.** In a right triangle, one acute angle measures 76° . Find the **other acute angle**.

- 32.** In a right triangle, one acute angle measures 34° . Find the **other acute angle**.

- 33.** In a right triangle, one acute angle measures 57° . Find the **other acute angle**.

- 34.** The two remote interior angles of a triangle measure 70° and 75° . Find the **exterior angle**. _____

35. Two angles of a triangle measure 100° and 50° . Find the **third angle**.

36. The two remote interior angles of a triangle measure 35° and 22° . Find the **exterior angle**. _____
37. The two remote interior angles of a triangle measure 79° and 23° . Find the **exterior angle**. _____
38. Two angles of a triangle measure 34° and 33° . Find the **third angle**. _____
39. Two angles of a triangle measure 56° and 23° . Find the **third angle**. _____
40. The two remote interior angles of a triangle measure 50° and 37° . Find the **exterior angle**. _____
41. Two angles of a triangle measure 25° and 81° . Find the **third angle**. _____
42. In a right triangle, one acute angle measures 28° . Find the **other acute angle**. _____
43. Two angles of a triangle measure 95° and 20° . Find the **third angle**. _____
44. The two remote interior angles of a triangle measure 39° and 34° . Find the **exterior angle**. _____
45. The two remote interior angles of a triangle measure 22° and 68° . Find the **exterior angle**. _____
46. Two angles of a triangle measure 30° and 52° . Find the **third angle**. _____
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47. In a right triangle, one acute angle measures 79° . Find the **other acute angle**.

48. The two remote interior angles of a triangle measure 66° and 68° . Find the **exterior angle**. _____

49. Two angles of a triangle measure 36° and 20° . Find the **third angle**. _____

50. In a right triangle, one acute angle measures 72° . Find the **other acute angle**.

Answer Key – Triangle Angles

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|-----------------|-----------------|-----------------|
| 1. 38° | 2. 137° | 3. 157° |
| 4. 64° | 5. 16° | 6. 143° |
| 7. 50° | 8. 99° | 9. 122° |
| 10. 71° | 11. 85° | 12. 69° |
| 13. 13° | 14. 32° | 15. 93° |
| 16. 109° | 17. 24° | 18. 31° |
| 19. 10° | 20. 69° | 21. 97° |
| 22. 78° | 23. 80° | 24. 151° |
| 25. 75° | 26. 69° | 27. 137° |
| 28. 87° | 29. 46° | 30. 31° |
| 31. 14° | 32. 56° | 33. 33° |
| 34. 145° | 35. 30° | 36. 57° |
| 37. 102° | 38. 113° | 39. 101° |
| 40. 87° | 41. 74° | 42. 62° |
| 43. 65° | 44. 73° | 45. 90° |
| 46. 98° | 47. 11° | 48. 134° |
| 49. 124° | 50. 18° | |
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