

Interior Angles of Triangles — Answers



Find the missing angle in each triangle. The angles in any triangle sum to 180° .

1. Find x .



Solution

$$x = 180^\circ - 60^\circ - 70^\circ$$

$$x = 50^\circ$$

2. Find y .



Solution

$$y = 180^\circ - 45^\circ - 55^\circ$$

$$y = 80^\circ$$

3. Find z .



Solution

$$z = 180^\circ - 50^\circ - 50^\circ$$

$$z = 80^\circ$$

4. Find a .



Solution

$$a = 180^\circ - 80^\circ - 40^\circ$$

$$a = 60^\circ$$

5. Find b .



Solution

$$b = 180^\circ - 30^\circ - 60^\circ$$

$$b = 90^\circ$$

6. Find c .



Solution

$$c = 180^\circ - 35^\circ - 75^\circ$$

$$c = 70^\circ$$

7. Find p .



Solution

$$p = 180^\circ - 90^\circ - 45^\circ$$

$$p = 45^\circ$$

8. Find q .



Solution

$$q = 180^\circ - 55^\circ - 55^\circ$$

$$q = 70^\circ$$

9. Find r .



Solution

$$r = 180^\circ - 70^\circ - 65^\circ$$

$$r = 45^\circ$$

Interior Angles of Quadrilaterals — Answers



Find the missing angle. The angles in any quadrilateral sum to 360° .

10. Find x .



Solution

$$x = 360^\circ - 90^\circ - 90^\circ - 90^\circ$$

$$x = 90^\circ$$

11. Find y .



Solution

$$y = 360^\circ - 80^\circ - 100^\circ - 90^\circ$$

$$y = 90^\circ$$

12. Find z .



Solution

$$z = 360^\circ - 70^\circ - 110^\circ - 80^\circ$$

$$z = 100^\circ$$

13. Find m .



Solution

$$m = 360^\circ - 85^\circ - 95^\circ - 100^\circ$$

$$m = 80^\circ$$

14. Find n .



Solution

$$n = 360^\circ - 75^\circ - 105^\circ - 75^\circ$$

$$n = 105^\circ$$

15. Find k .



Solution

$$k = 360^\circ - 120^\circ - 60^\circ - 120^\circ$$

$$k = 60^\circ$$

16. Find w .



Solution

$$w = 360^\circ - 65^\circ - 115^\circ - 65^\circ$$

$$w = 115^\circ$$

17. Find v .



Solution

$$v = 360^\circ - 88^\circ - 92^\circ - 88^\circ$$

$$v = 92^\circ$$

18. Find u .



Solution

$$u = 360^\circ - 100^\circ - 80^\circ - 100^\circ$$

$$u = 80^\circ$$