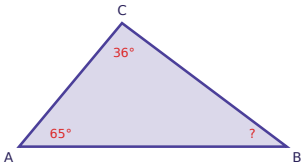
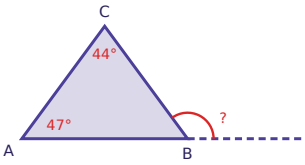
Triangle Angle Sum & Exterior Angles · 1

Two angles of a triangle measure 65° and 36°. Find the third angle.



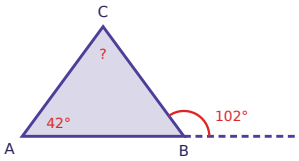
Triangle Angle Sum & Exterior Angles · 2

Find the measure of the exterior angle at B.



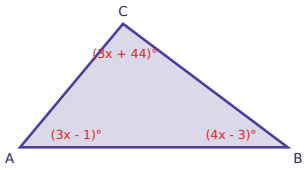
Triangle Angle Sum & Exterior Angles · 3

The exterior angle at B is shown. Find the measure of the angle at C.



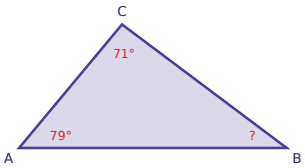
Triangle Angle Sum & Exterior Angles · 4

The angles of a triangle are (3x - 1)°, (4x - 3)°, (3x + 44)°. Find x.



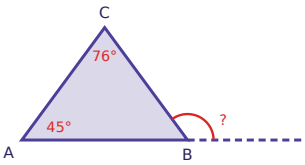
Triangle Angle Sum & Exterior Angles · 5

Two angles of a triangle measure 79° and 71°. Find the third angle.



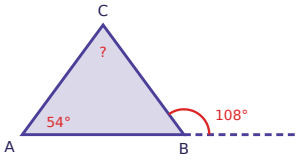
Triangle Angle Sum & Exterior Angles · 6

Find the measure of the exterior angle at B.



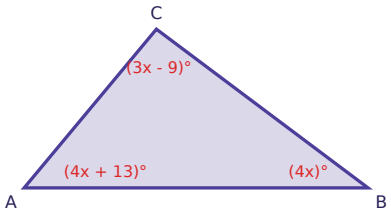
Triangle Angle Sum & Exterior Angles · 7

The exterior angle at B is shown. Find the measure of the angle at C.



Triangle Angle Sum & Exterior Angles · 8

The angles of a triangle are (4x + 13)°, (4x)°, (3x - 9)°. Find x.



Triangle Angle Sum & Exterior Angles · 2

ANSWER

91

Triangle Angle Sum & Exterior Angles · 1

ANSWER

79

Triangle Angle Sum & Exterior Angles · 4

ANSWER

x = 14

Triangle Angle Sum & Exterior Angles · 3

ANSWER

60

Triangle Angle Sum & Exterior Angles · 6

ANSWER

121

Triangle Angle Sum & Exterior Angles · 5

ANSWER

30

Triangle Angle Sum & Exterior Angles · 8

ANSWER

x = 16

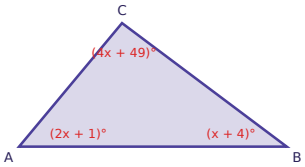
Triangle Angle Sum & Exterior Angles · 7

ANSWER

54

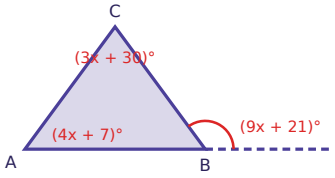
Triangle Angle Sum & Exterior Angles · 9

The angles of a triangle are (2x + 1)°, (x + 4)°, (4x + 49)°. Find x.



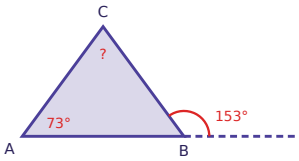
Triangle Angle Sum & Exterior Angles · 10

The angle at A is (4x + 7)°, the angle at C is (3x + 30)°, and the exterior angle at B is (9x + 21)°. Find x.



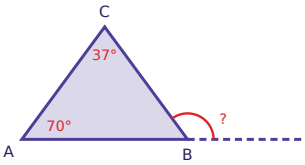
Triangle Angle Sum & Exterior Angles · 11

The exterior angle at B is shown. Find the measure of the angle at C.



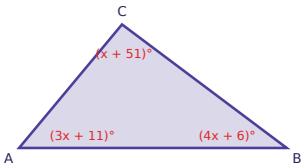
Triangle Angle Sum & Exterior Angles · 12

Find the measure of the exterior angle at B.



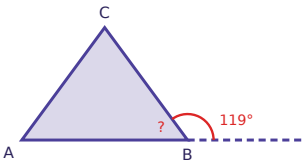
Triangle Angle Sum & Exterior Angles · 13

The angles of a triangle are (3x + 11)°, (4x + 6)°, (x + 51)°. Find x.



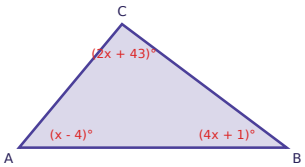
Triangle Angle Sum & Exterior Angles · 14

Find the measure of the interior angle at B.



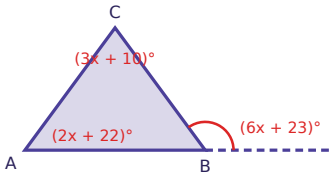
Triangle Angle Sum & Exterior Angles · 15

The angles of a triangle are (x - 4)°, (4x + 1)°, (2x + 43)°. Find x.



Triangle Angle Sum & Exterior Angles · 16

The angle at A is (2x + 22)°, the angle at C is (3x + 10)°, and the exterior angle at B is (6x + 23)°. Find x.



Triangle Angle Sum & Exterior Angles · 10

ANSWER

$x = 8$

Triangle Angle Sum & Exterior Angles · 9

ANSWER

$x = 18$

Triangle Angle Sum & Exterior Angles · 12

ANSWER

107

Triangle Angle Sum & Exterior Angles · 11

ANSWER

80

Triangle Angle Sum & Exterior Angles · 14

ANSWER

61

Triangle Angle Sum & Exterior Angles · 13

ANSWER

$x = 14$

Triangle Angle Sum & Exterior Angles · 16

ANSWER

$x = 9$

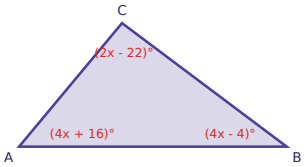
Triangle Angle Sum & Exterior Angles · 15

ANSWER

$x = 20$

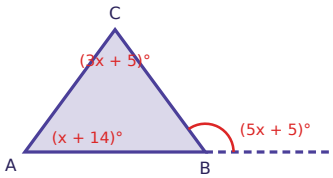
Triangle Angle Sum & Exterior Angles · 17

The angles of a triangle are (4x + 16)°, (4x - 4)°, (2x - 22)°. Find x.



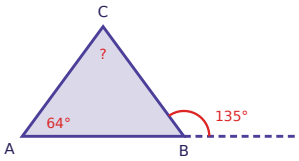
Triangle Angle Sum & Exterior Angles · 18

The angle at A is (x + 14)°, the angle at C is (3x + 5)°, and the exterior angle at B is (5x + 5)°. Find x.



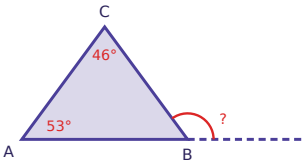
Triangle Angle Sum & Exterior Angles · 19

The exterior angle at B is shown. Find the measure of the angle at C.



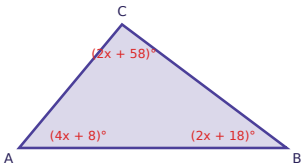
Triangle Angle Sum & Exterior Angles · 20

Find the measure of the exterior angle at B.



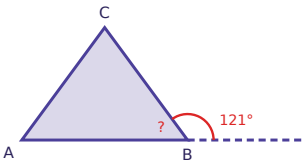
Triangle Angle Sum & Exterior Angles · 21

The angles of a triangle are (4x + 8)°, (2x + 18)°, (2x + 58)°. Find x.



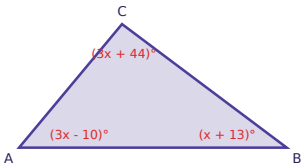
Triangle Angle Sum & Exterior Angles · 22

Find the measure of the interior angle at B.



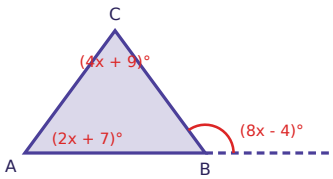
Triangle Angle Sum & Exterior Angles · 23

The angles of a triangle are (3x - 10)°, (x + 13)°, (3x + 44)°. Find x.



Triangle Angle Sum & Exterior Angles · 24

The angle at A is (2x + 7)°, the angle at C is (4x + 9)°, and the exterior angle at B is (8x - 4)°. Find x.



Triangle Angle Sum & Exterior Angles · 18

ANSWER

$x = 14$

Triangle Angle Sum & Exterior Angles · 17

ANSWER

$x = 19$

Triangle Angle Sum & Exterior Angles · 20

ANSWER

99

Triangle Angle Sum & Exterior Angles · 19

ANSWER

71

Triangle Angle Sum & Exterior Angles · 22

ANSWER

59

Triangle Angle Sum & Exterior Angles · 21

ANSWER

$x = 12$

Triangle Angle Sum & Exterior Angles · 24

ANSWER

$x = 10$

Triangle Angle Sum & Exterior Angles · 23

ANSWER

$x = 19$