

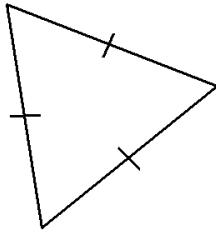


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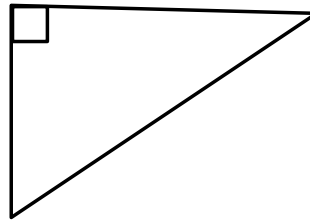
Triangles

1. Identify the triangles.

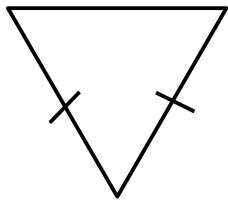
1.1



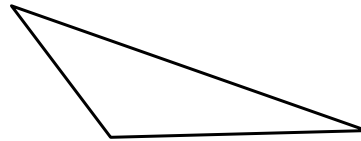
1.2



1.3

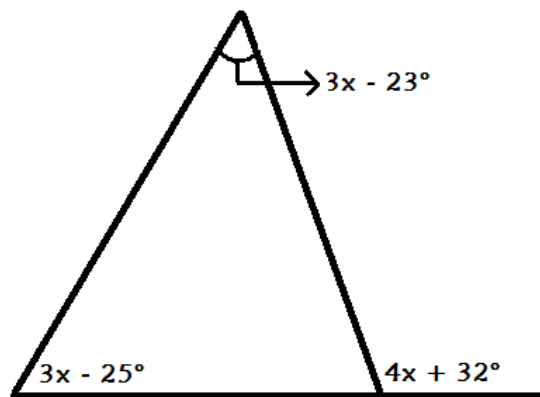


1.4



2. Solve for x:

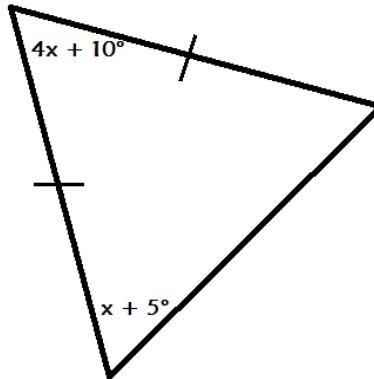
2.1.1



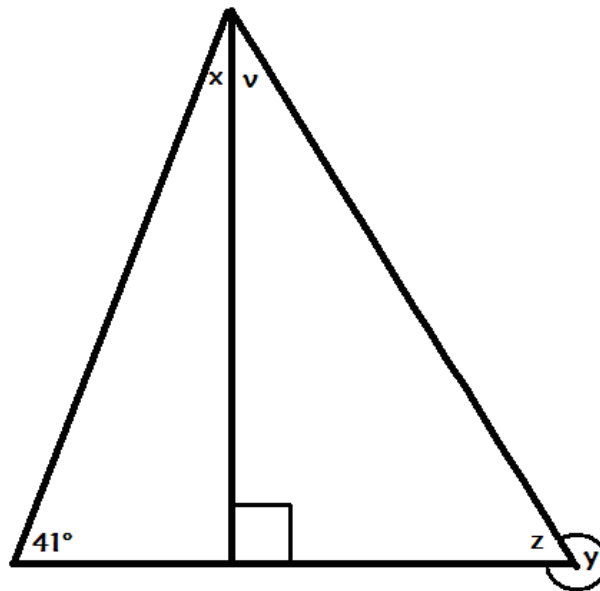
2.1.2



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2.2 Calculate the values of x , z and v if $y = 285^\circ$.





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MEMO

1. Identify the triangles:

[8.3.1.1; 8.3.1.2]

- 1.1 Equilateral triangle
- 1.2 Right-angled triangle
- 1.3 Isosceles triangle
- 1.4 Obtuse-angled triangle

2. Solve the variables asked.

[8.3.2.1; 8.3.2.2; 8.3.3.1; 8.3.3.2; 8.3.4.1; 8.3.4.2]

2.1.1

$$4x + 32^\circ = (3x - 23^\circ) + (3x - 25^\circ)$$

$$4x + 32^\circ = 6x - 48^\circ$$

$$4x - 6x = -80^\circ$$

$$\therefore -2x = -80^\circ$$

$$\therefore x = 40^\circ$$

2.1.2

$$180^\circ = (4x + 10^\circ) + 2(x + 5^\circ)$$

$$180^\circ = 6x + 20^\circ$$

$$160^\circ = 6x$$

$$\therefore x = 26,67^\circ$$

2.2

$$x + 41^\circ = 90^\circ$$

$$\therefore x = 49^\circ$$

$$z + y = 360^\circ$$

$$\therefore z = 360^\circ - 285^\circ$$

$$\therefore z = 75^\circ$$

$$v + z = 90^\circ$$

$$\therefore v = 90^\circ - 75^\circ$$

$$\therefore v = 15^\circ$$