

January 9th

Option 1:

The two angles given are equal:

$$\text{Therefore } 3x - 5 = 2x - 2$$

Solving gives $x=3$

So the 3 angles are **$4^\circ, 4^\circ, 172^\circ$**

Option 2:

$3x-5$ is the angle which is repeated.

So the angles are $3x - 5, 3x - 5$ and $2x - 2$

$$\text{Hence } 3x - 5 + 3x - 5 + 2x - 2 = 180$$

$$8x - 12 = 180$$

$$x = 24$$

So the 3 angles are **$67^\circ, 67^\circ, 46^\circ$**

Option 3:

$2x - 2$ is the angle which is repeated.

So the angles are $3x - 5, 2x - 2$ and $2x - 2$

$$\text{Hence } 3x - 5 + 2x - 2 + 2x - 2 = 180$$

$$7x - 9 = 180$$

$$x = 27$$

So the 3 angles are **$76^\circ, 52^\circ, 52^\circ$**