



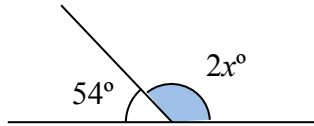
## ANGLE

### NO PROTRACTOR

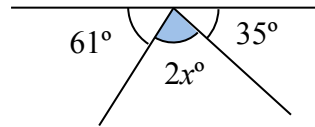
Ref: G421. **1E1**

#### ANGLES WHICH FORM A STRAIGHT LINE

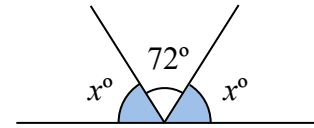
**A1** Find the value  $x$



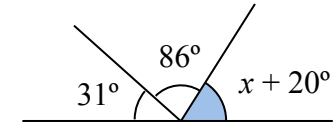
**A2** Find the value  $x$



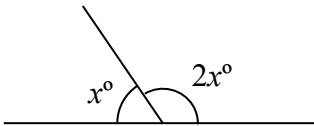
**A3** Find the value  $x$



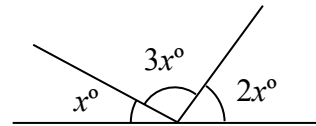
**A4** Find the value  $x$



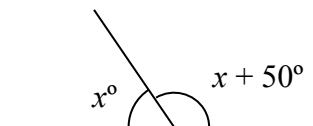
**B1** Find the size of both angles



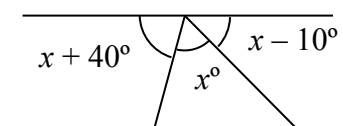
**B2** Find the size of all three angles



**B3** Find the size of both angles



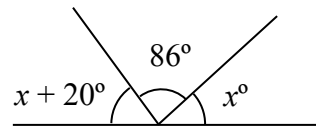
**B4** Find the size of all three angles



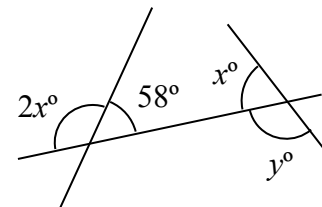
**C1**

Three angles form a straight line.  
The second angle is twice the first angle.  
The third angle is five degrees more than the second angle.  
Find the size of each of the three angles.

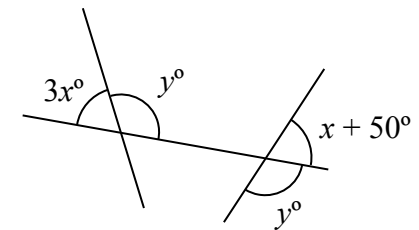
**C2** Find the value  $x$



**C3** Find the values of  $x$  and  $y$



**C4** Find the values of  $x$  and  $y$



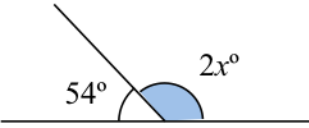
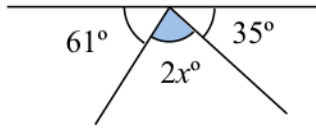
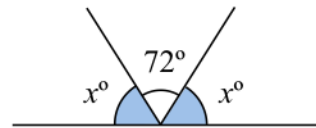
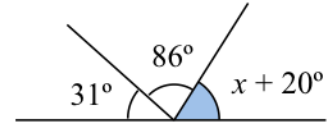
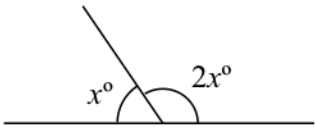
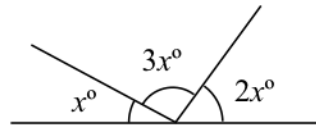
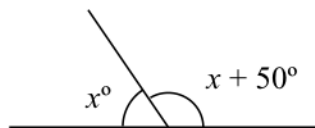
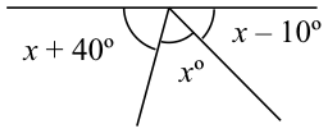
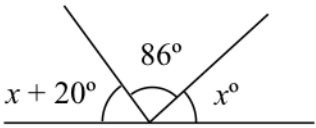
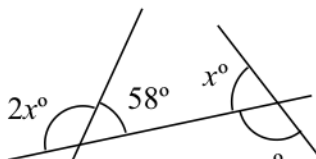


## ANGLE

### ANGLES WHICH FORM A STRAIGHT LINE

## NO PROTRACTOR

Ref: G421. **1E1**

<p><b>A1</b> Find the value <math>x</math></p> <p><math>2x = 126</math></p>  <p><math>x = 63</math></p>	<p><b>A2</b> Find the value <math>x</math></p> <p><math>2x = 84</math></p>  <p><math>x = 42</math></p>	<p><b>A3</b> Find the value <math>x</math></p> <p><math>2x = 108</math></p>  <p><math>x = 54</math></p>	<p><b>A4</b> Find the value <math>x</math></p> <p><math>x + 20 = 63</math></p>  <p><math>x = 43</math></p>
<p><b>B1</b> Find the size of both angles</p> <p><math>3x = 180, x = 60</math></p>  <p><math>60^\circ, 120^\circ</math></p>	<p><b>B2</b> Find the size of all three angles</p> <p><math>6x = 180, x = 30</math></p>  <p><math>30^\circ, 90^\circ, 60^\circ</math></p>	<p><b>B3</b> Find the size of both angles</p> <p><math>2x + 50 = 180, x = 65</math></p>  <p><math>65^\circ, 115^\circ</math></p>	<p><b>B4</b> Find the size of all three angles</p> <p><math>3x + 30 = 180, x = 50</math></p>  <p><math>90^\circ, 50^\circ, 40^\circ</math></p>
<p><b>C1</b></p> <p><math>x + 2x + (2x + 5) = 180</math>  <math>\Rightarrow 5x + 5 = 180</math>  <math>\Rightarrow 5x = 175</math>  <math>x = 35</math></p> <p>Angles are <math>35^\circ, 70^\circ</math> and <math>75^\circ</math></p>	<p><b>C2</b> Find the value <math>x</math></p> <p><math>2x + 20 = 94</math></p>  <p><math>x = 37</math></p>	<p><b>C3</b> Find the values of <math>x</math> and <math>y</math></p>  <p><math>2x = 122</math> <math>x = 61</math></p> <p><math>y = 180 - 61</math> <math>y = 119</math></p>	<p><b>C4</b> Find the values of <math>x</math> and <math>y</math></p> <p><math>3x = x + 50</math>  <math>2x = 50</math>  <math>x = 25</math></p> <p><math>y = 180 - (25 + 50)</math>  <math>= 105</math></p> 