

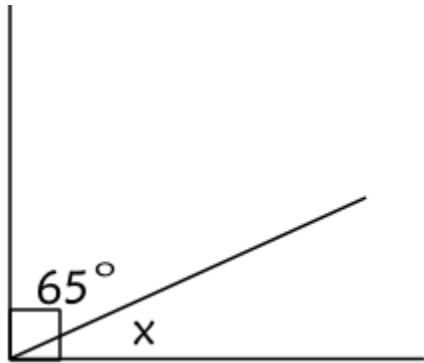


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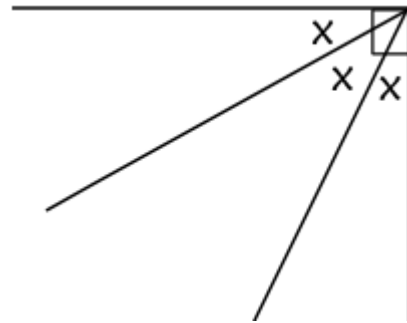
Geometry of straight lines

1. Calculate the following angles.

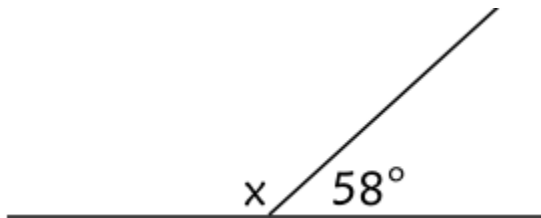
1.1



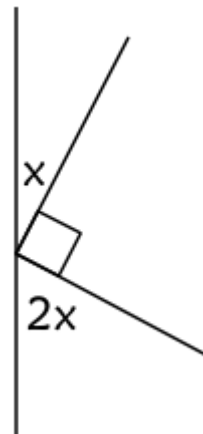
1.2



1.3



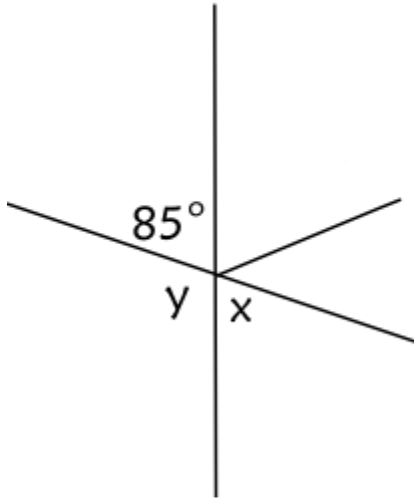
1.4



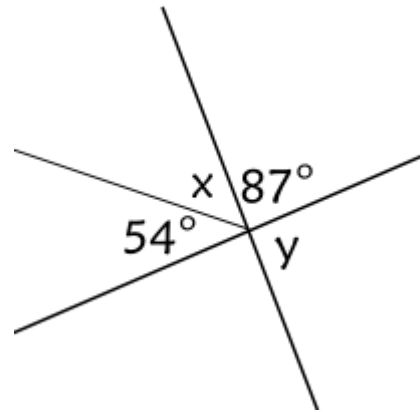


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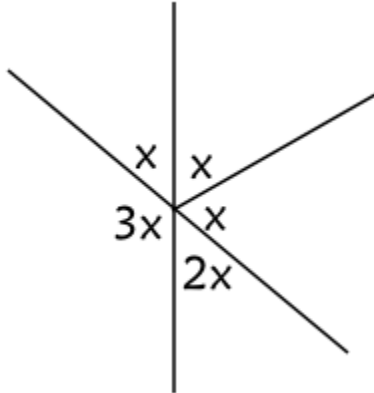
1.5



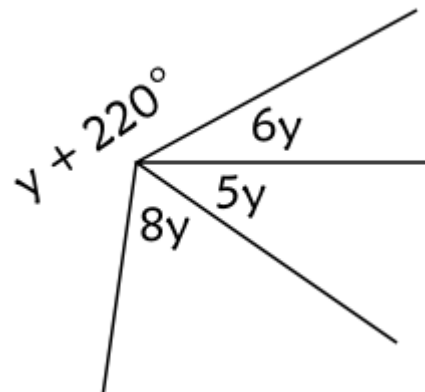
1.6



1.7 Angles around a point.



1.8





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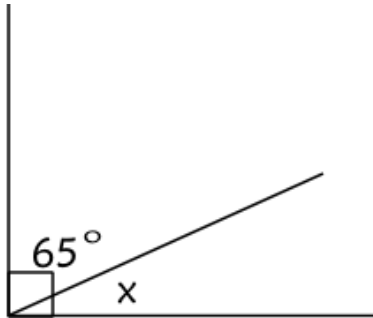


MEMO

1. Calculate the following angles.

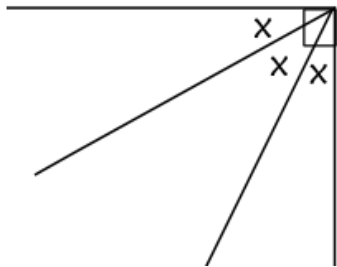
1.1 Complementary angles.

[8.2.1.1; 8.2.1.2]



$$\begin{aligned}x + 65^\circ &= 90^\circ \text{ (compl. } \angle\text{'s)} \\x &= 90^\circ - 65^\circ \\x &= 25^\circ\end{aligned}$$

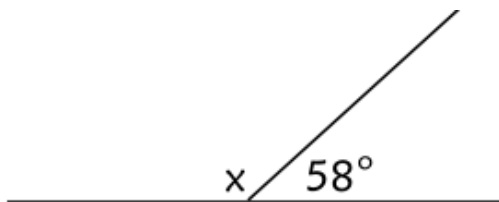
1.2



$$\begin{aligned}x + x + x &= 90^\circ \text{ (compl. } \angle\text{'s)} \\3x &= 90^\circ \\x &= 30^\circ\end{aligned}$$

1.3 Supplementary angles.

[8.2.2.1; 8.2.2.2]



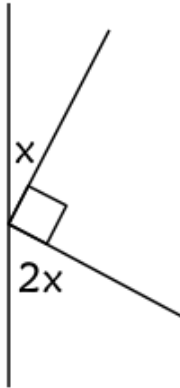
$$\begin{aligned}x + 58^\circ &= 180^\circ \text{ (suppl. } \angle\text{'s)} \\x &= 180^\circ - 58^\circ \\x &= 122^\circ\end{aligned}$$



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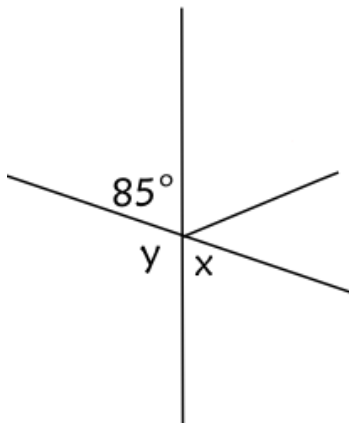
1.4



$$\begin{aligned}x + 90^\circ + 2x &= 180^\circ \text{ (suppl. } \angle\text{'s)} \\3x + 90^\circ &= 180^\circ \\3x &= 180^\circ - 90^\circ \\3x &= 90^\circ \\x &= 30^\circ\end{aligned}$$

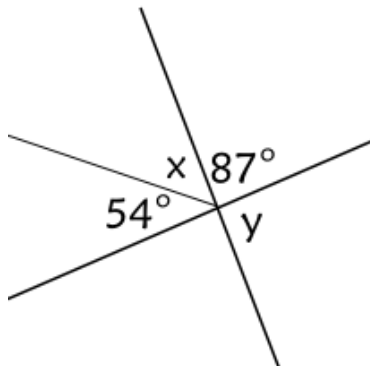
1.5 Vertically opposite angles.

[8.2.3.1; 8.2.3.2]



$$\begin{aligned}x &= 85^\circ \text{ (vert. opp. } \angle\text{'s)} \\85^\circ + y &= 180^\circ \text{ (suppl. } \angle\text{'s)} \\y &= 180^\circ - 85^\circ \\y &= 95^\circ\end{aligned}$$

1.6



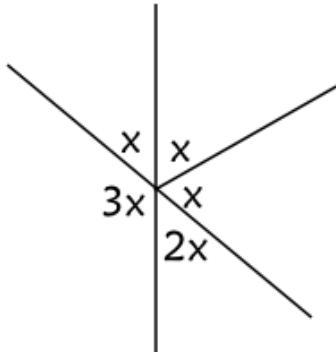
$$\begin{aligned}54^\circ + x + 87^\circ &= 180^\circ \text{ (suppl. } \angle\text{'s)} \\x &= 180^\circ - 54^\circ - 87^\circ \\x &= 39^\circ \\y &= 54^\circ + x \text{ (vert. opp. } \angle\text{'s)} \\y &= 54^\circ + 39^\circ \\y &= 93^\circ\end{aligned}$$



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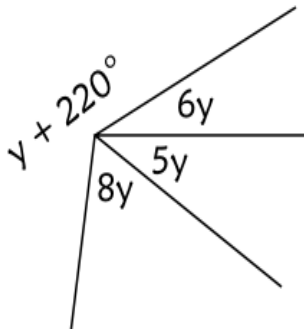
1.7 Angles around a point.

[8.2.4.1; 8.2.4.2]



$$\begin{aligned} 3x + 2x + x + x + x &= 360^\circ \text{ (rotation)} \\ 8x &= 360^\circ \\ x &= 45^\circ \end{aligned}$$

1.8



$$\begin{aligned} (y + 220^\circ) + 8y + 5y + 6y &= 360^\circ \text{ (rotation)} \\ 20y + 220^\circ &= 360^\circ \\ 20y &= 360^\circ - 220^\circ \\ y &= 7^\circ \end{aligned}$$

