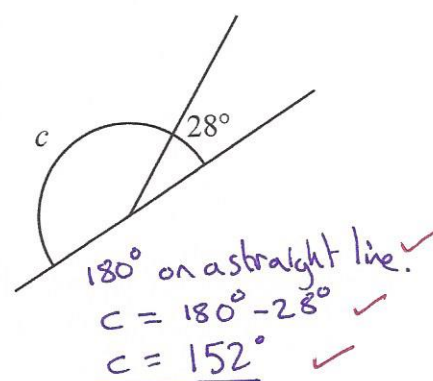
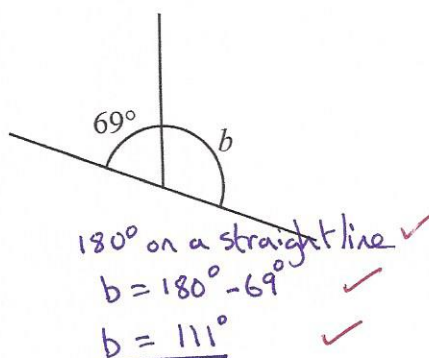
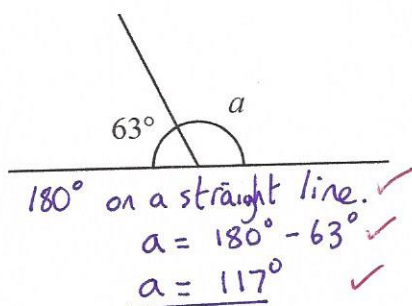


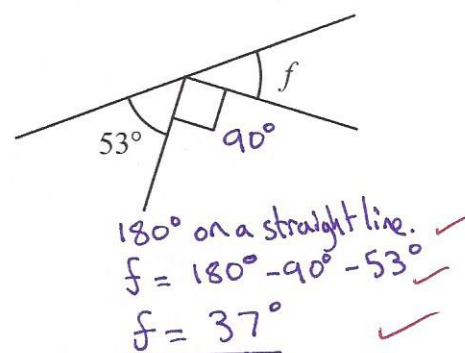
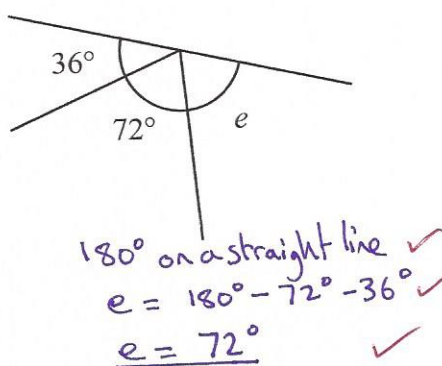
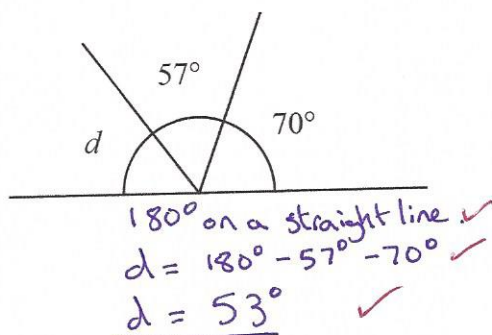
ANGLES ABOUT A POINT AND ON A STRAIGHT LINE

EXERCISE 1: ANGLES ON A STRAIGHT LINE

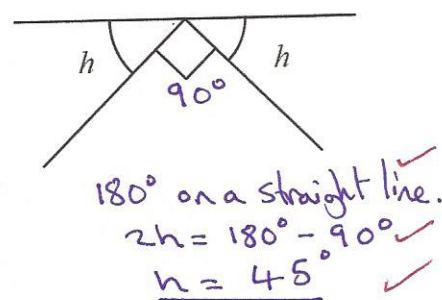
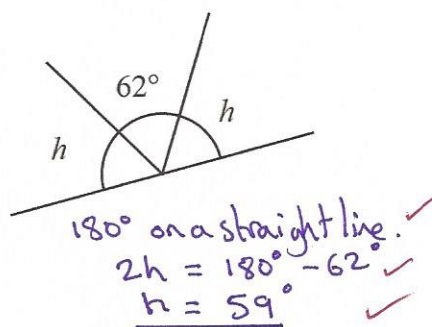
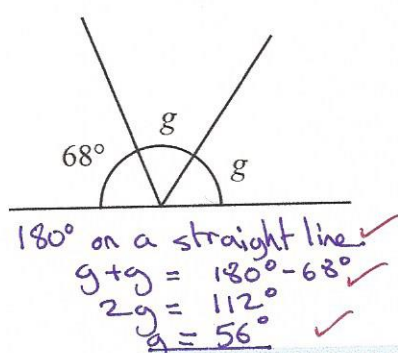
SECTION A: FIND THE MISSING ANGLES AND JUSTIFY YOUR ANSWERS



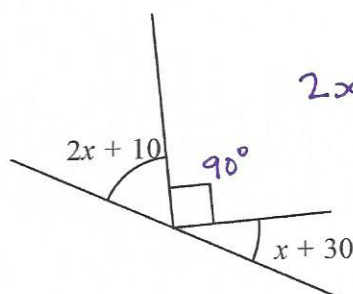
SECTION B: FIND THE MISSING ANGLES AND JUSTIFY YOUR ANSWERS



SECTION C: FIND THE MISSING ANGLES AND JUSTIFY YOUR ANSWERS



PROBLEM SOLVING: FIND THE VALUE OF x AND JUSTIFY YOUR ANSWER



180° on a straight line. ✓
 $2x + 10^\circ + x + 30^\circ = 180^\circ - 90^\circ$ ✓

$3x + 40^\circ = 90^\circ$

$3x = 90^\circ - 40^\circ$

$3x = 50^\circ$ ✓

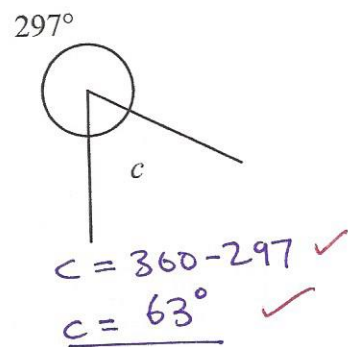
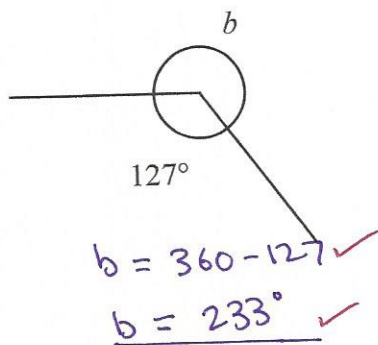
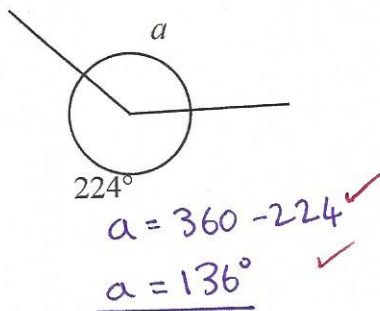
$x = \frac{50^\circ}{3}$

$x = 16.7^\circ$ (1 d.p.) ✓

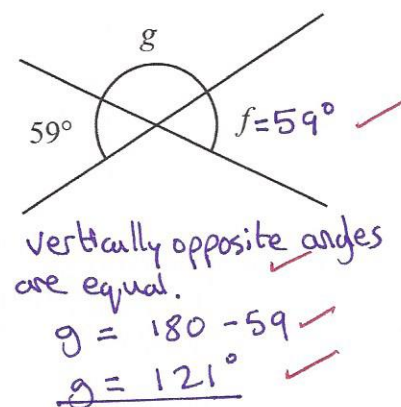
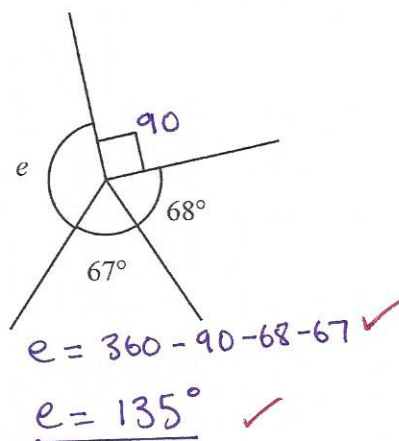
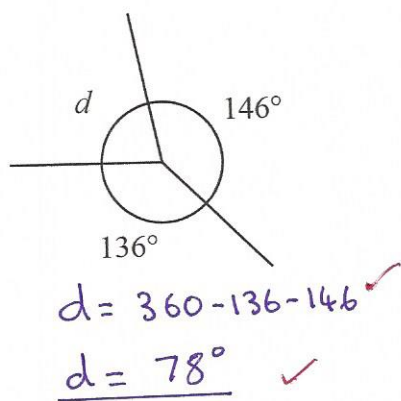


EXERCISE 2: ANGLES ABOUT A POINT

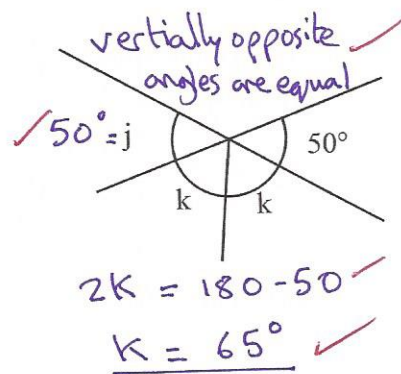
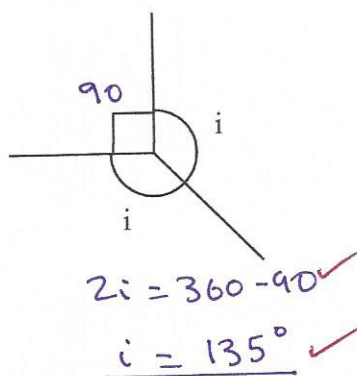
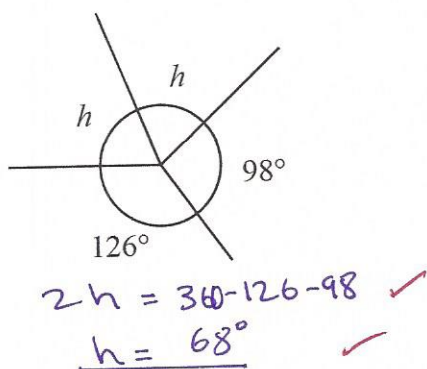
SECTION A: FIND THE MISSING ANGLES AND JUSTIFY YOUR ANSWERS



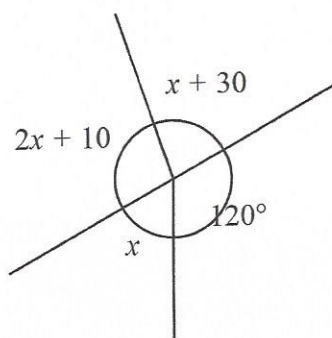
SECTION B: FIND THE MISSING ANGLES AND JUSTIFY YOUR ANSWERS



SECTION C: FIND THE MISSING ANGLES AND JUSTIFY YOUR ANSWERS



PROBLEM SOLVING: FIND THE VALUE OF x AND JUSTIFY YOUR ANSWER



$$\begin{aligned}
 2x + 10 + x + 30 + x &= 360 - 120 \\
 4x + 40 &= 240 \\
 4x &= 200 \\
 x &= \frac{200}{4} \\
 x &= 50
 \end{aligned}$$

