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Lesson 13.3 Right, Isosceles, and Equilateral Triangles

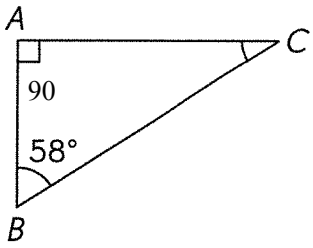
Find the unknown angle measures in each right triangle. The figures are not drawn to scale.

1. ABC is a right triangle.
Find the measure of $\angle ACB$.

90 + 58 = 148

180 - 148 = 32

32 degrees

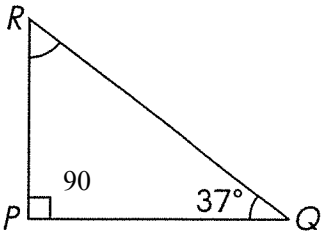


2. PQR is a right triangle.
Find the measure of $\angle PRQ$.

90 + 37 = 127

53 degrees

180 - 127 = 53



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Find the unknown angle measures. The figures are not drawn to scale.

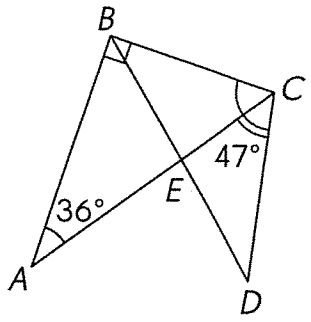
3. ABC is a right triangle.
Find the measure of $\angle BCD$.

90 + 36 = 126

180 - 126 = 54

54 + 47 = 101

BCD = 101 degrees



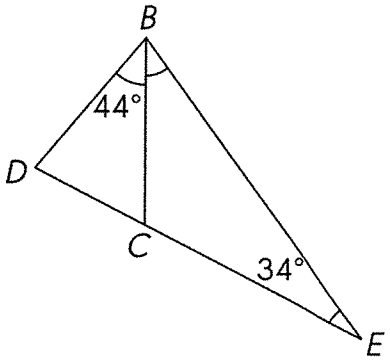
4. EBD is an isosceles triangle with $ED = EB$, $m\angle BEC = 34°$, and $m\angle CBD = 44°$.
Find the measure of $\angle EBC$.

180 - 34 = 146

146/2 = 73

73 - 44 = 29

EBC = 29 degrees



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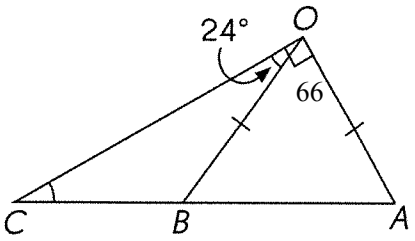
Find the unknown angle measures in each figure. The figures are not drawn to scale.

5. AOB is an isosceles triangle. $OA = OB$.
AOC is a right triangle.
Find the measure of $\angle OCB$.



90 - 24 = 66

180 - 66 = 114

114 divided by 2 = 57

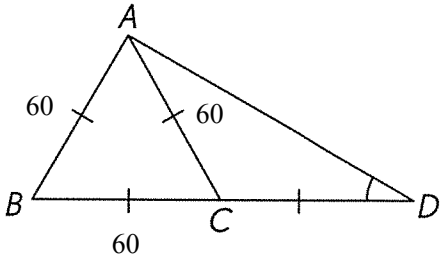
180 - 57 = 123

123 + 24 = 147

180 - 147 = 33

OCB = 33 degrees

6. ABC is an equilateral triangle and ACD is an isosceles triangle.
Find the measure of $\angle ADC$.



180 - 60 = 120

120 divided by 2 = 60

ADC = 60 degrees

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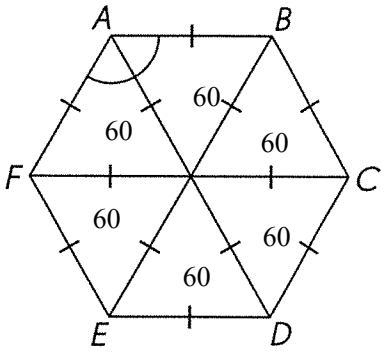
7. *ABCDEF* is a 6-sided figure. All the triangles are equilateral triangles. Find the measure of $\angle FAB$.

60 x 6 = 360

FAB = 60 degrees



8. *ABC* is an equilateral triangle. $BA = BD$. Find the measure of $\angle AEC$.

28 + 28 = 56

180 - 56 = 114

114 divided by 2 = 57

AEC = 57 degrees