Interior and Exterior Angles of Regular Polygons

Instructions: Show your working and give all answers	in degrees. Use these formulas:
Sum of interior angles = $(n - 2) \times 180$	
Exterior angle = 360 ÷ n	
Interior angle = 180 - Exterior angle	
4) Find the court of interior and a set or automore	
1) Find the sum of interior angles of a pentagon.	
[Diagram: Regular Pentagon]	
2) Find one interior angle of a regular hexagon.	
[Diagram: Regular Hexagon]	
3) Find one exterior angle of a regular octagon.	
[Diagram: Regular Octagon]	
4) The exterior angle of a regular polygon is 60. How	many sides does the polygon have?
·	
5) The interior angle of a regular polygon is 140. Find	the number of sides.

6) A regular polygon has 18 sides. Find one interior	and one exterior angle.
7) Explain why the sum of all exterior angles in any	polygon is always 360.
8) The interior angle of a regular polygon is three tin	nes the exterior angle. Find the number of sides.
9) A regular polygon has an exterior angle smaller	than that of a decagon but larger than that of a
dodecagon. Estimate its number of sides.	
10) A student drew a regular polygon and measure	d one interior angle as 120. What is the name of