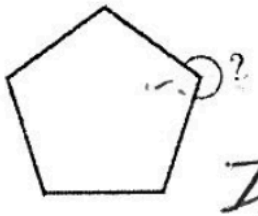
55. The measure of each interior angle of a regular n-sided polygon is $\frac{(n-2)180^\circ}{n}$. A regular pentagon is shown below. What is the measure of the designated angle?



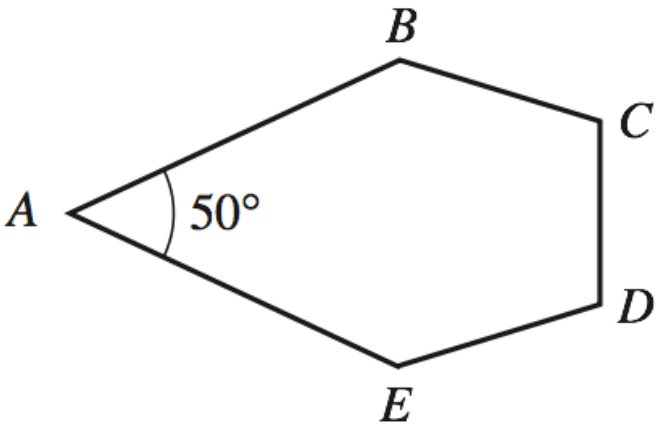
A. 108°
B. 144°
C. 198°
→ D. 252°
E. 288°

TOTAL NUMBER OF DEGREES AROUND A FIXED POINT IS 360°

INTERNAL ANGLE MEASUREMENT IS

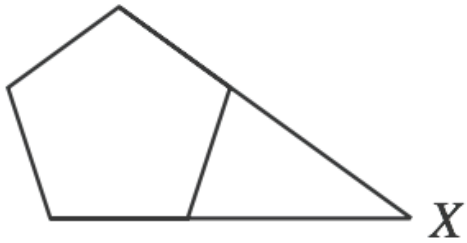
$\frac{(5-2)180^\circ}{5} = 108^\circ$ $360^\circ - 108^\circ = 252$

58. In pentagon *ABCDE*, shown below, $\angle A$ measures 50°. What is the total measure of the other 4 interior angles?



F. 130°
G. 200°
H. 310°
J. 432°
K. 490°

45. In the figure below, 2 nonadjacent sides of a regular pentagon (5 congruent sides and 5 congruent interior angles) are extended until they meet at point X. What is the measure of $\angle X$?



A. 18°
B. 30°
C. 36°
D. 45°
E. 72°