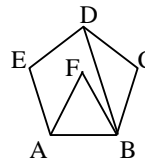


- Which one is a regular convex polygon?
 A) Rectangle B) Square C) Triangle
 D) Kite E) Parallelogram
- What is the measure of an interior angle of a regular convex polygon with 9 sides?
 A) 160 B) 156 C) 152 D) 144 E) 140
- If a regular convex polygon has 12 sides, then what is the difference between the measures of an interior and exterior angle?
 A) 120° B) 100° C) 80°
 D) 70° E) 60°
- The measure of an exterior angle of a regular convex polygon is 18° . Find the number of diagonals.
 A) 135 B) 150 C) 180 D) 170 E) 165
- The measure of an interior angle of a regular convex polygon is equal to sum of the measures of three exterior angles. Find the number of diagonals.
 A) 9 B) 14 C) 20 D) 27 E) 35
- The number of diagonals of a convex polygon is 3 times the number of its sides. Find the number of sides.
 A) 6 B) 7 C) 8 D) 9 E) 10
- The measure of an interior angle of a regular convex polygon is 20 more than 3 times the measure of its exterior angle. Find the number of sides of this regular convex polygon.
 A) 15 B) 12 C) 10 D) 9 E) 8

- Find the measure of an exterior angle of a regular convex polygon whose number of diagonals is three times the number of its sides.
 A) 108 B) 60 C) 40 D) 36 E) 30
- If the sum of the measures of the interior angles of a regular convex polygon is three times the sum of the exterior angles, find the measure of an interior angle of this regular convex polygon.
 A) 135 B) 75 C) 120 D) 108 E) 144
- A regular polygon with $(n + 4)$ sides has $(n^2 - 1)$ diagonals. Find the measure of an exterior angle of this regular convex polygon.
 A) 26 B) 30 C) 34 D) 36 E) 60

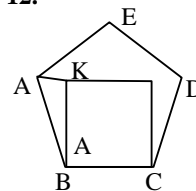
11.



In the given figure, ABCDE is a regular pentagon and ABF is an equilateral triangle. Find the measure of the angle DBF.

- A) 10 B) 12 C) 16 D) 18 E) 20

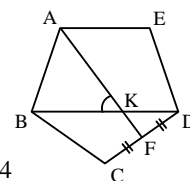
12.



In the figure, ABCDE is a regular pentagon and ABCD is a square. Find the measure of the angle AKB.

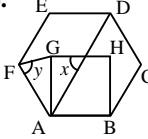
- A) 72 B) 75 C) 81 D) 82 E) 90

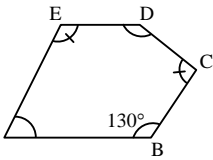
13.

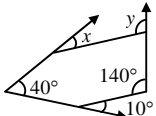


- A) 45 B) 50 C) 54
 D) 55 E) 60

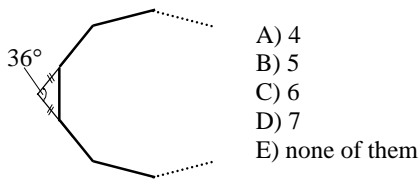
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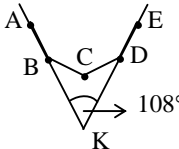
14.  ABCDEF is a regular hexagon and ABHG is a square. Find $y - x$ in degrees.
- A) 10 B) 15 C) 20 D) 25 E) 30

15. If $[AB] \parallel [ED]$,
 $m(\hat{C}) = m(\hat{E})$,
 $m(\hat{B}) = 130^\circ$ and
 $m(\hat{A}) + m(\hat{D}) = 190^\circ$,  find $m(\hat{A})$.
- A) 60 B) 65 C) 70
 D) 75 E) 80

16.  $x + y = ?$
- A) 120° B) 140°
 C) 160° D) 170°
 E) 190°

17. Find the number of sides of the given regular convex polygon.



18. In the given figure, A, B, C, D and E are the vertices of a regular convex polygon. If $m(\hat{BKD}) = 108^\circ$, then find the number of sides of this regular convex polygon.
- 
- A) 12 B) 13 C) 14 D) 15 E) 18

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