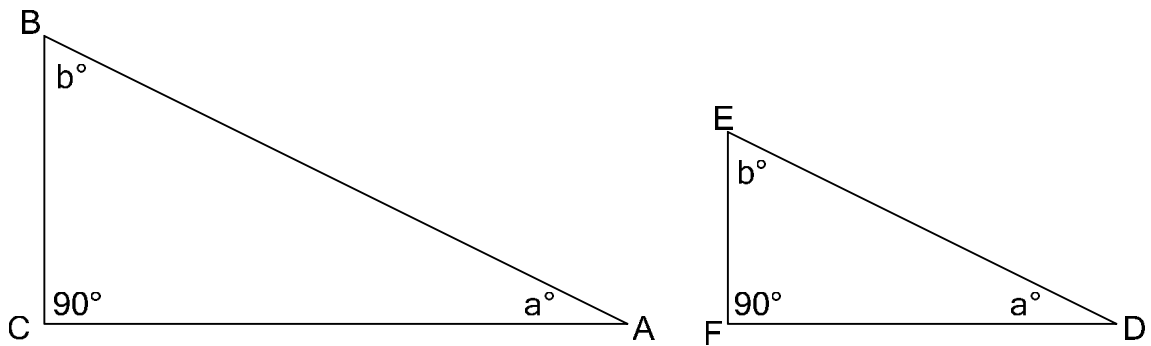
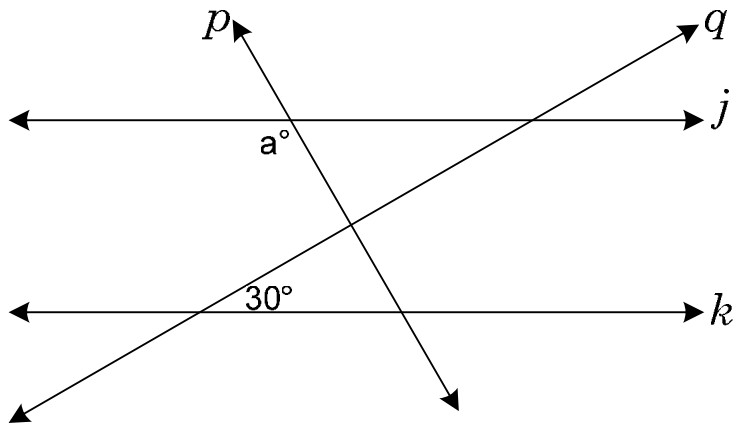


1. In the drawing below, $CA=12$, $FD=8$, and $CB=6$. What is the value of FE ?

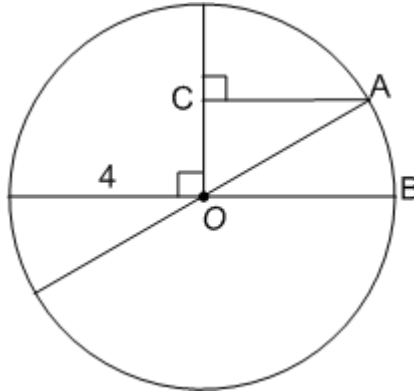


- (A) 2
(B) 6
(C) 5
(D) 4
(E) 8
2. Line j is parallel to line k , and line p is perpendicular to line q . What is the value of a ?

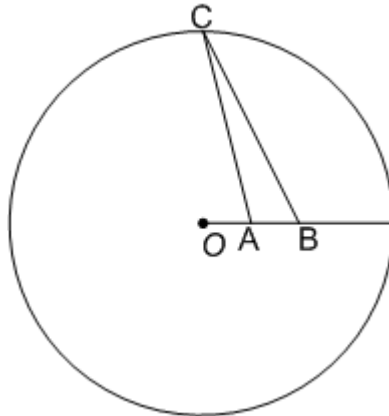


- (A) 60
(B) 30
(C) 150
(D) 100

- (E) 120
3. Central angle AOB is 30° . What is the length of line segment OC?

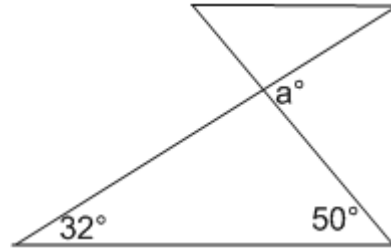


- (A) 2
 (B) 3
 (C) $\sqrt{2}$
 (D) 1.5
 (E) $2\sqrt{2}$
4. The radius of circle O is 4 and the length of line segment AB is 1. What is the area of triangle ABC?

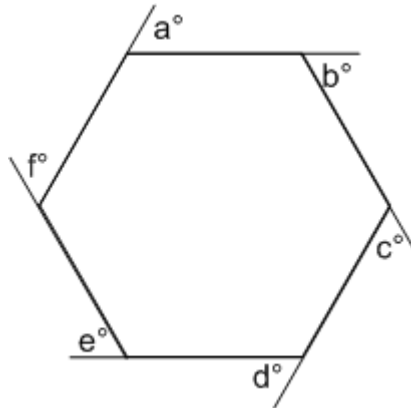


- (A) $2\sqrt{2}$
 (B) 8
 (C) 4
 (D) 2
 (E) 1

5. In the adjacent figure, what is the value of a ?



- (A) 98
(B) 82
(C) 108
(D) 50
(E) 32
6. In the figure below, what is the sum of $a + b + c + d + e + f$?



- (A) 180
(B) 1080
(C) 360
(D) 540
(E) 90

Answer Key

1. **D**
2. **E**
3. **A**
4. **D**
5. **B**
6. **C**

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