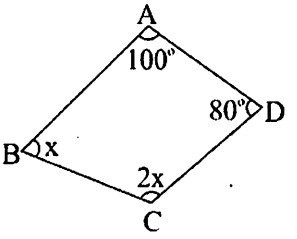
# TEST 9

*(Polygons)*

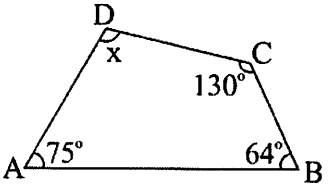
**1) What is the value of ∠C=?**

A) 100
B) 110
C) 120
D) 130
E) 140



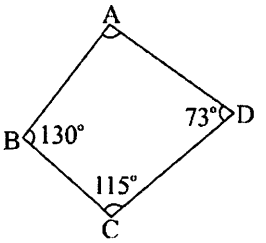

**2) What is the value of ∠C-∠D?**

A) 39
B) 40
C) 48
D) 51
E) 61



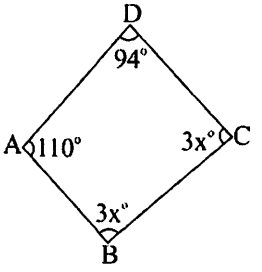

**3) What is the value of ∠C - ∠A?**

A) 82
B) 73
C) 62
D) 52
E) 42



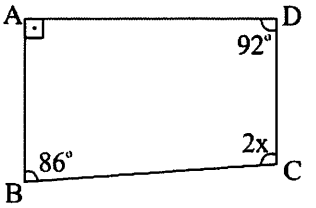

**4) What is the value of ∠D+∠B?**

A) 120
B) 130
C) 140
D) 145
E) 172



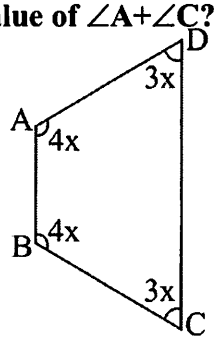

**5) ∠A=90°, ∠B=86°, ∠C=2x, ∠D=92°, what is the value of x?**

A) 40
B) 42
C) 43
D) 44
E) 46



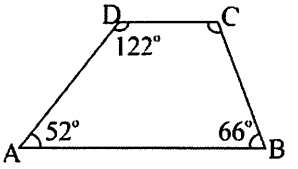

**6) What is the value of ∠A+∠C?**

A) 180
B) 170
C) 160
D) 150
E) 140



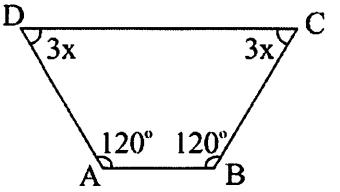

**7) ∠D=122°, ∠A=52°, ∠B=66. What is the value of ∠C?**

A) 120
B) 122
C) 132
D) 136
E) 140



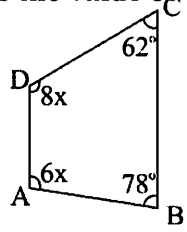

**8) What is the value of ∠B-∠C?**

A) 40
B) 45
C) 48
D) 55
E) 60



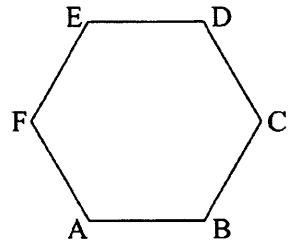
**9)** $\angle A=6x^\circ$, $\angle B=78^\circ$, $\angle C=62^\circ$, $\angle D=8x^\circ$, **what is the value of** $\angle D$?

A) 90
B) 100.71
C) 110
D) 125.71
E) 145.71



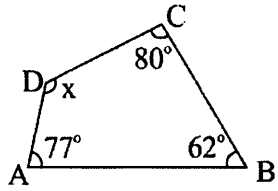

**10)** $AB=BC=DC=ED=EF=FA$. **What is the value of** $\angle 2A+\angle 3E$?

A) 400
B) 420
C) 480
D) 520
E) 600



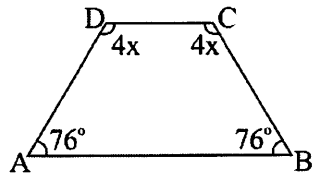

**11)** $\angle A=77^\circ$, $\angle B=62^\circ$, $\angle C=80^\circ$. **What is the value of x?**

A) 144
B) 142
C) 141
D) 130
E) 131



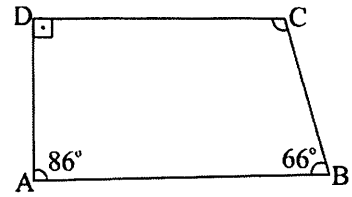

**12)** $\angle A=\angle B=76^\circ$, $\angle C=\angle D=4x$, **what is the value of 4x?**

A) 64
B) 78
C) 57
D) 53
E) 104



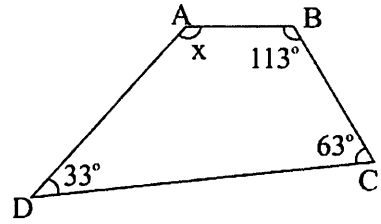

**13)** $\angle D=90^\circ$, $\angle A=86^\circ$, $\angle B=66^\circ$. **What is the value of** $\angle C-\angle A$?

A) 30
B) 34
C) 35
D) 38
E) 32




**14) What is the value of x?**

A) 140
B) 148
C) 150
D) 151
E) 161




**15)** $\angle B=112^\circ$, $\angle C=122^\circ$, $\angle D=28^\circ$, **what is the value of x?**

A) 100
B) 98
C) 97
D) 96
E) 95