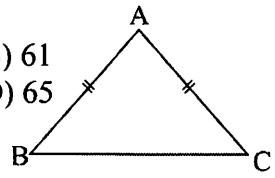
TEST 5

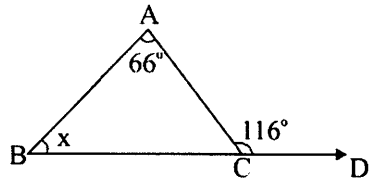
(Triangles and Angles)

1) If the measure of angle BAC is 68^0, what is the measure of angle ABC?



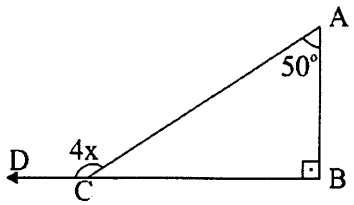
A) 56 B) 61
C) 64 D) 65
E) 66

2) The measure of angle BAC is 66^0, and the measure of angle ACD is 116^0, what is the measure of angle ABC?



A) 40 B) 44 C) 50
D) 54 E) 60

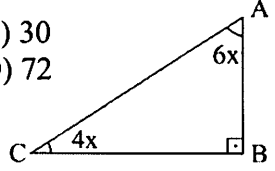
3) The measure of angle BAC is 50^0, and the measure of angle ACD is $(4x)^0$, what is the value of x?



A) 40 B) 35 C) 44
D) 46 E) 50

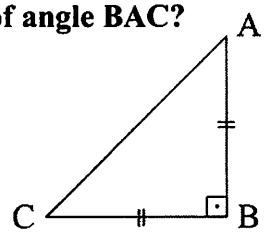
4) The measure of angle BAC is $(6x)^0$ and the measure of angle ACB is $(4x)^0$, what is the value of 3x?

A) 60 B) 30
C) 27 D) 72
E) 80



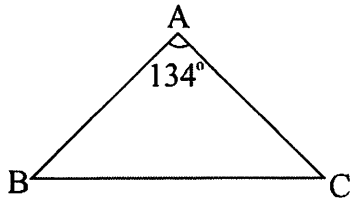
5) $\angle B=90^0$, $\angle A=\angle C=3x$, What is the measure of angle BAC?

A) 25
B) 20
C) 18
D) 16
E) 45



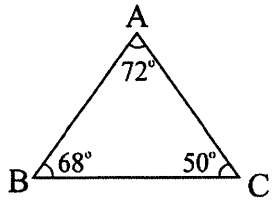
6) The measure of angle BAC is 134^0 and AB=AC, What is the measure of angle ABC?

A) 30
B) 29
C) 28
D) 23
E) 26



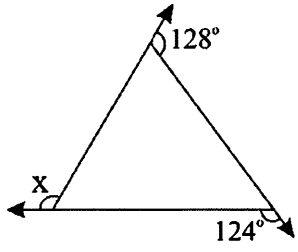
7) $\angle A=72^0$, $\angle B=68^0$, $\angle C=50^0$. Order the lengths of the sides of ABC from greatest to least?

A) AB>BC>AC
B) BC>AC>AB
C) AC>AB>BC
D) BA>BC>AC
E) AB=AC>BC



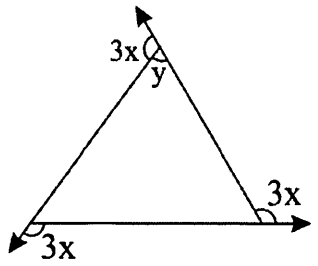
8) What is the measure of angle x?

A) 108
B) 109
C) 110
D) 120
E) 121

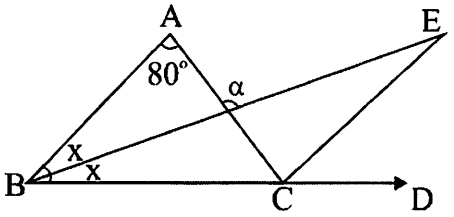


9) What is the measure of angle 2x+6y?

A) 300
B) 380
C) 420
D) 430
E) 440

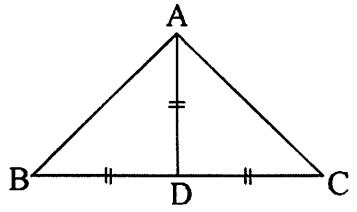


10) What is the measure of angle α?



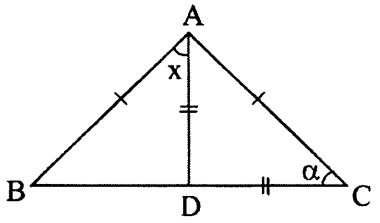
A) x B) 2x C) 80+2x
D) x+80 E) 80–x

11) BD=DC=AD, ∠C=3x, ∠B=y, what is the value of 2y+6x?



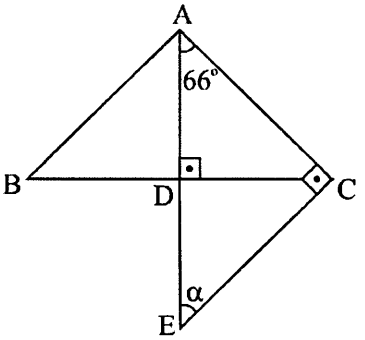
A) 120 B) 150 C) 180
D) 190 E) 210

12) AB=AC, AD=DC, What is the value of 2x?



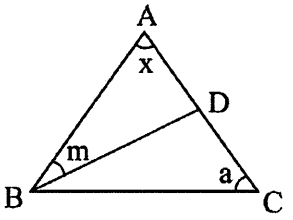
A) 180–3α B) 90–2α
C) 180–3α D) 180–4α
E) 360-6α

13) ∠ADC=90°, ∠C=90°, ∠DAC=66°, ∠E=α=?



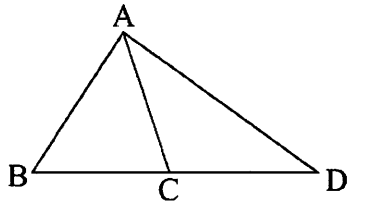
A) 24 B) 26 C) 28
D) 30 E) 32

14) AB=AC, BD=BC, what is the value of 6a?



A) 180+m B) 180–m
C) 360+m D) 360+2m
E) 540-3x

15) AB=BC=AC, AC=DC, ∠D=2x, what is the value of x^2?



A) 144 B) 225 C) 169
D) 289 E) 400