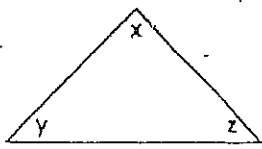
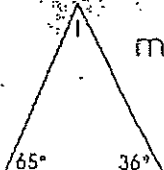


Answer Key

Triangles



For any Δ
 $x + y + z = 180^\circ$

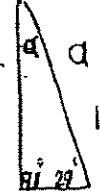


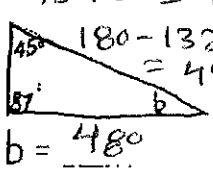
$m\angle 1 = \underline{\hspace{2cm}}$

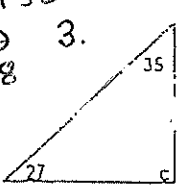
$m\angle 1 + 65 + 36 = 180$
 $m\angle 1 + 101 = 180$
 $m\angle 1 = 79$


91
+29

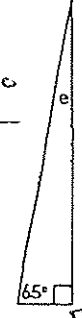
120

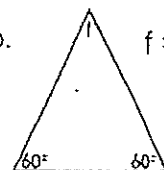
1.  $a = 60^\circ$
 $180 - 120 = 60^\circ$


2.  $45 + 87 = 132^\circ$
 $180 - 132 = 48$
 $b = 48^\circ$

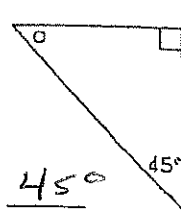
3.  $c = 118^\circ$
 $35 + 27 = 62^\circ$
 $180 - 62 = 118^\circ$

4.  $81 + 75 = 156$
 $180 - 156 = 24^\circ$
 $a = 24^\circ$

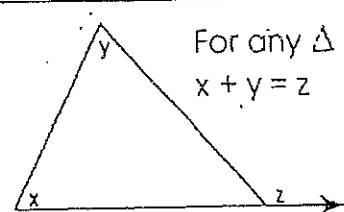
5.  $e = 25^\circ$
 $65 + 90 = 155^\circ$
 $180 - 155 = 25^\circ$

6.  $f = 60^\circ$
 $60 + 60 = 120^\circ$

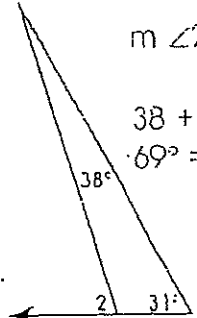
7.  $x = 80^\circ$
 $180 - 100 = 80^\circ$
 $50 + 50 = 100^\circ$

8.  $a = 45^\circ$
 $90 + 45 = 135^\circ$
 $180 - 135 = 45^\circ$

Exterior and Interior Angles of a Triangle



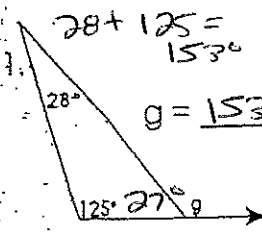
For any Δ
 $x + y = z$

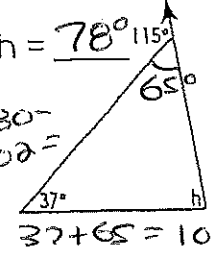


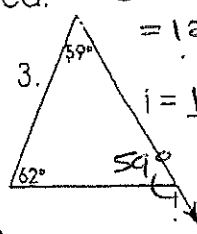
$m\angle 2 = \underline{\hspace{2cm}}$

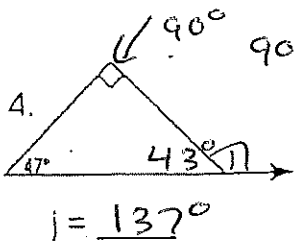
$38 + 31 = m\angle 2$
 $69^\circ = m\angle 2$

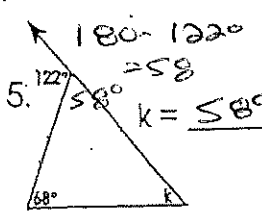
Find the measures of the angles indicated.

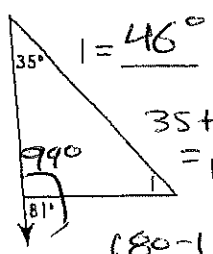
1.  $28 + 125 = 153^\circ$
 $g = 153^\circ$

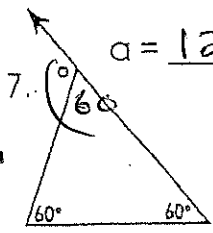
2.  $h = 78^\circ$
 $180 - 102 = 78^\circ$
 $37 + 65 = 102^\circ$

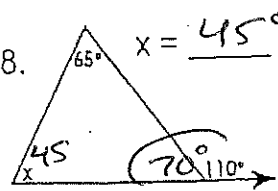
3.  $59 + 62 = 121^\circ$
 $i = 121^\circ$

4.  $90 + 47 = 137^\circ$
 $j = 137^\circ$

5.  $180 - 122 = 58$
 $k = 58^\circ$
 $58 + 68 = 122^\circ$

6.  $l = 46^\circ$
 $35 + 99 = 134$
 $180 - 134 = 46^\circ$

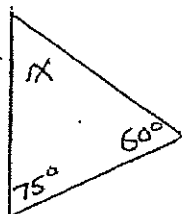
7.  $a = 120^\circ$

8.  $x = 45^\circ$
 $70 + 45 = 115^\circ$

Answer Key

Find the unknown Angle "x" in the following Triangles

①

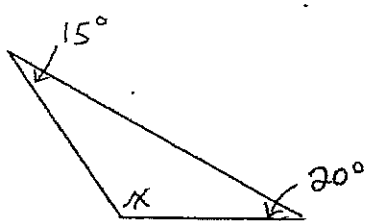


$$75 + 60 = 135$$

$$180 - 135$$

$$x = 45^\circ$$

②

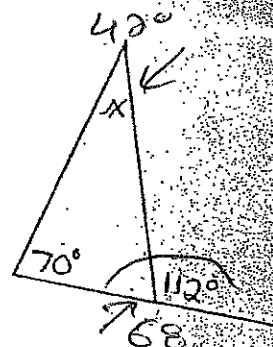


$$20 + 15 = 35$$

$$180 - 35 = 145$$

$$x = 145^\circ$$

③

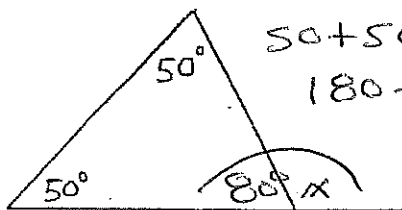


$$70 + 68 = 138$$

$$180 - 138$$

$$42^\circ$$

④

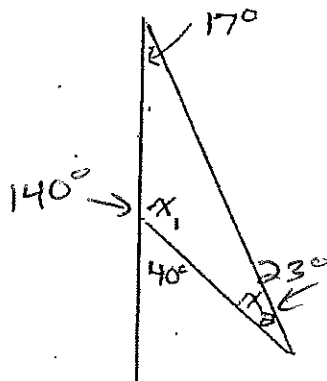


$$50 + 50 = 100$$

$$180 - 100 = 80$$

$$x = 100$$

⑤



$$180 - 40 = 140$$

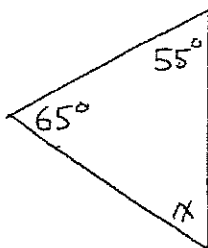
$$x_1 = 140^\circ$$

Find both values of x, x₁ and x₂

$$140 + 17 = 157$$

$$x_2 = 23^\circ$$

⑥



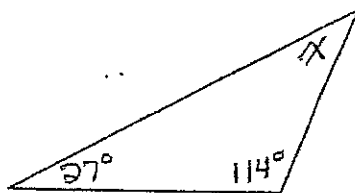
$$65 + 55 = 120$$

$$180 - 120$$

$$= 60$$

$$x = 60^\circ$$

⑦



$$27 + 114$$

$$= 141$$

$$180 - 141 = 39$$

$$x = 39^\circ$$

⑧



$$49.2 + 49.2$$

$$= 98.4$$

$$180 - 98.4 = 81.6$$

$$81.6^\circ$$

Answer Key

Geometry

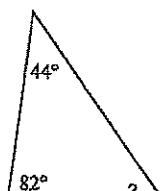
Name _____

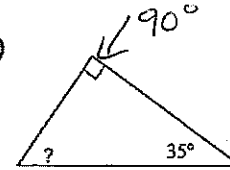
ID: 2

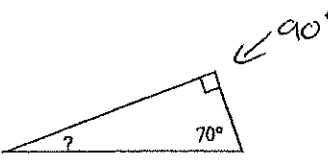
Assignment

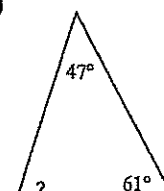
Date _____ Period _____

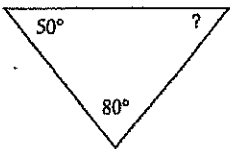
Find the measure of each angle indicated.

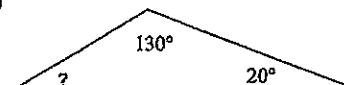
1)  A) 72° B) 45°
C) 54° D) 47°

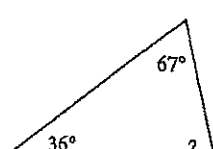
2)  A) 30° B) 45°
C) 63° D) 55°

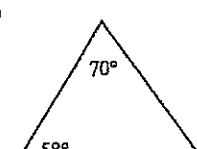
3)  A) 21° B) 26°
C) 25° D) 20°

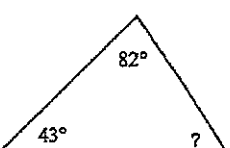
4)  A) 49° B) 151°
C) 72° D) 46°

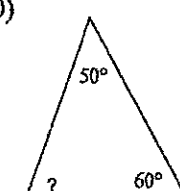
5)  A) 75° B) 61°
C) 65° D) 50°

6)  A) 145° B) 30°
C) 129° D) 50°

7)  A) 57° B) 81°
C) 77° D) 65°

8)  A) 60° B) 150°
C) 52° D) 120°

9)  A) 55° B) 64°
C) 53° D) 120°

10)  A) 70° B) 79°
C) 85° D) 65°



Answer

Key

