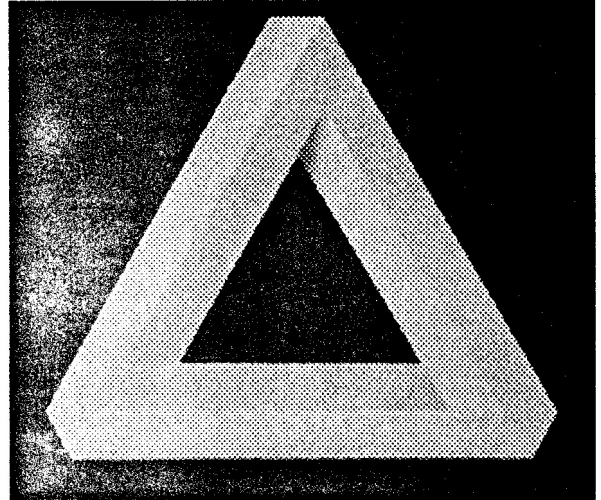


WHICH IS WHICH AND WHICH ARE YOU?

Mr. Mumaugh

*Some triangles beg to be solved.
Some triangles are not meant to be solved.
Some triangles dare you to solve them.
Some triangles do not need to be solved.
Some triangles are not really triangles.
Some triangles contain hidden secrets.
Some people spend their entire life never knowing which is which.
Some people know exactly what to do!*



Tell everything there is to know about each of the following "triangles". You need to include a picture, the angle measures, side measures, area and perimeter. Decimals must be accurate to the hundredths so do not round off early. Angles must be accurate to the nearest minute.

- | | | | | | |
|------------------------|------------------|---------------------|-------------------------|---------------------|---------------------|
| 1) $b = 6$ | $c = 4$ | $A = 85^{\circ}13'$ | 17) $A = 20^{\circ}13'$ | $C = 81^{\circ}26'$ | $b = 318$ |
| 2) $a = 18.2$ | $B = 62^{\circ}$ | $C = 48^{\circ}$ | 18) $b = 83.7$ | $B = 53^{\circ}10'$ | $A = 87^{\circ}40'$ |
| 3) $A = 30^{\circ}$ | $b = 20$ | $a = 10$ | 19) $a = 3$ | $b = 7$ | $c = 5$ |
| 4) $C = 35^{\circ}13'$ | $b = 38.15$ | $c = 24.71$ | 20) $B = 66^{\circ}$ | $b = 71.3$ | $c = 71.3$ |
| 5) $a = 5$ | $b = 6$ | $c = 4$ | 21) $A = 30^{\circ}$ | $c = 717$ | $a = 356$ |
| 6) $c = 5$ | $A = 54^{\circ}$ | $B = 38^{\circ}$ | 22) $C = 30^{\circ}28'$ | $A = 92^{\circ}13'$ | $c = .0172$ |
| 7) $B = 30^{\circ}$ | $b = 15$ | $a = 20$ | 23) $b = \sqrt{3}$ | $c = 2$ | $A = 30$ |
| 8) $C = 48^{\circ}$ | $b = 25$ | $c = 40$ | 24) $a = 3$ | $b = 5$ | $c = 6$ |
| 9) $B = 60^{\circ}$ | $a = 5$ | $c = 8$ | 25) $A = 63^{\circ}$ | $C = 49^{\circ}$ | $c = 3$ |
| 10) $b = 109$ | $c = 141$ | $C = 40^{\circ}16'$ | 26) $A = 163^{\circ}$ | $a = 97$ | $b = 43$ |
| 11) $A = 118^{\circ}$ | $a = 70$ | $c = 82$ | 27) $A = 54^{\circ}$ | $c = 6$ | $a = 8$ |
| 12) $B = 45^{\circ}$ | $c = 18$ | $b = 9\sqrt{2}$ | 28) $A = 24^{\circ}$ | $c = 8$ | $a = 6$ |
| 13) $B = 20^{\circ}$ | $c = 8$ | $b = 5$ | 29) $a = 6.15$ | $c = 4.25$ | $C = 25^{\circ}27'$ |
| 14) $C = 37^{\circ}$ | $c = 81.4$ | $a = 99.6$ | 30) $a = \sqrt{2}$ | $b = \sqrt{6}$ | $C = 150^{\circ}$ |
| 15) $C = 60^{\circ}$ | $c = 22.5$ | $b = 30$ | 31) $B = 34^{\circ}12'$ | $C = 73^{\circ}15'$ | $b = 3.75$ |
| 16) $a = 4$ | $b = 7$ | $c = 5$ | 32) $A = 48^{\circ}59'$ | $C = 76^{\circ}03'$ | $b = 1002$ |
| | | | 33) $b = \sqrt{2}$ | $c = 3$ | $a = \sqrt{17}$ |
| | | | 34) $A = 79^{\circ}15'$ | $B = 55^{\circ}11'$ | $c = 1125$ |
| | | | 35) $b = 37$ | $a = 21$ | $c = 14$ |
| | | | 36) $c = 8.32$ | $a = 5.18$ | $C = 31^{\circ}52'$ |
| | | | 37) $C = 47^{\circ}38'$ | $A = 83^{\circ}22'$ | $B = 50^{\circ}$ |
| | | | 38) $A = 30^{\circ}$ | $a = 2.45$ | $c = 4.9$ |
| | | | 39) $B = 67^{\circ}$ | $c = 2.5$ | $b = 3$ |
| | | | 40) $C = 24^{\circ}$ | $b = 3$ | $c = 2.5$ |

