

Name: Key

Date: _____

rs. Roubos

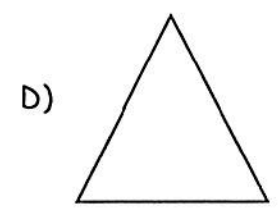
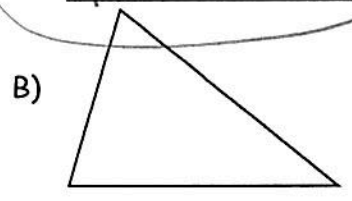
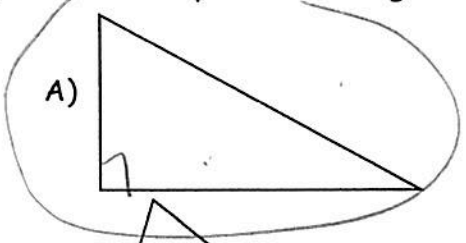
8R Period _____

Homework

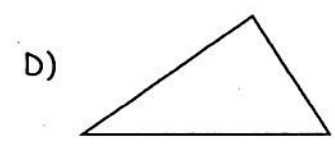
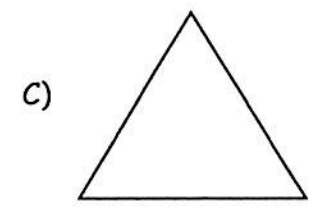
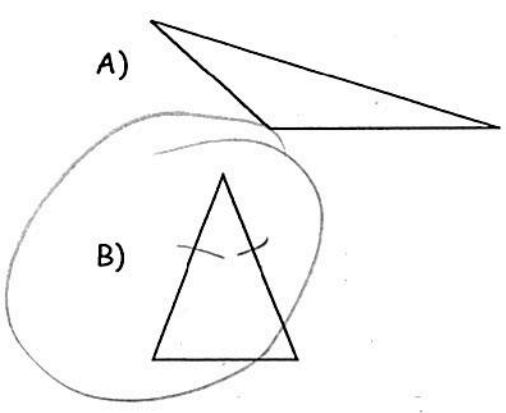
1) What are the sum of the measures of the angles in a triangle?

- A) 360° B) 180° C) 90° D) 540°

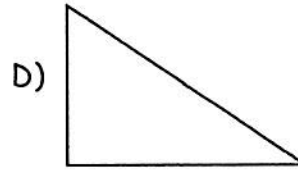
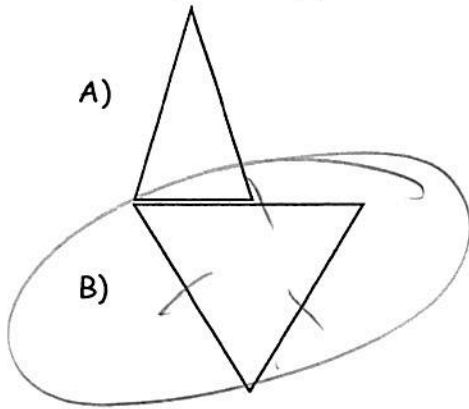
2) Which is a picture of a right triangle?



3) Which picture *appears* to be an isosceles triangle?



4) Which picture *appears* to be an equilateral triangle?



For #5-10 Find the value of each variable. And classify each triangle

5) $44 + 79 + x = 180$
 $123 + x = 180$
 $-123 \quad -123$
 $x = 57$
 Acute Triangle
 57°

6) $29 + 121 + w = 180$
 $150 + w = 180$
 $-150 \quad -150$
 $w = 30$
 Obtuse triangle
 30°

7) $6x + x + 40 = 180$
 $7x + 40 = 180$
 $-40 \quad -40$
 $7x = 140$
 $\frac{7x}{7} = \frac{140}{7}$
 $x = 20$
 $6x = 120$
 Obtuse triangle
 20°

8) $34 + 34 + y = 180$
 $68 + y = 180$
 $-68 \quad -68$
 $y = 112$
 Obtuse Isosceles triangle
 112°

9) $5y + y + 90 = 180$
 $6y + 90 = 180$
 $-90 \quad -90$
 $6y = 90$
 $\frac{6y}{6} = \frac{90}{6}$
 $y = 15$
 Right Triangle

10) $w + 15 + w + 45 = 180$
 $2w + 60 = 180$
 $-60 \quad -60$
 $2w = 120$
 $\frac{2w}{2} = \frac{120}{2}$
 $w = 60$
 Acute Triangle
 $w + 15 = 60 + 15 = 75^\circ$