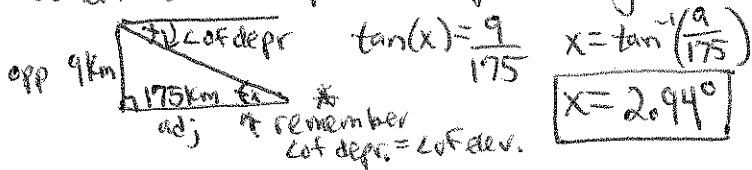


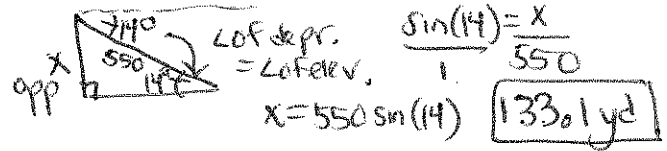
Day 6: Classifying Triangles and their parts AND Quiz

Warm-Up:

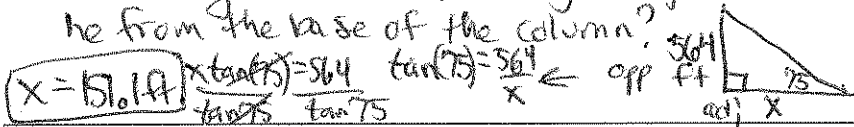
1) After altitude 9 km, plane descends when ground distance from landing field is 175 km. What is \angle of depr for this part of flight?



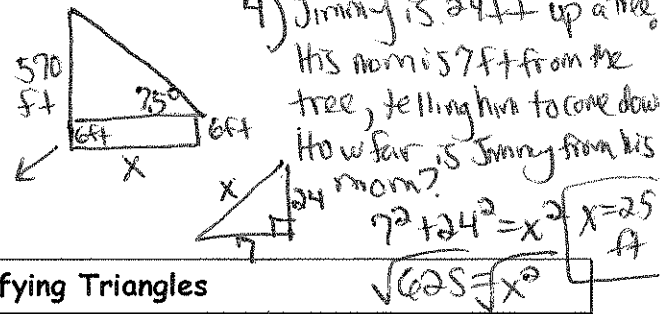
2) A ski slope 550 yd long with \angle of depr of 14° . Find vertical drop of slope.



3) The San Jacinto Column near Houston is 590 ft tall. If \angle of elev. for Derrick's line of sight is 75° and his eyes are 6 ft off the ground, how far is he from the base of the column?



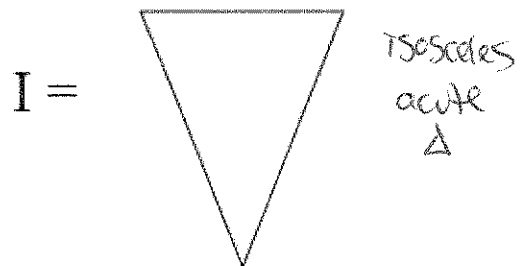
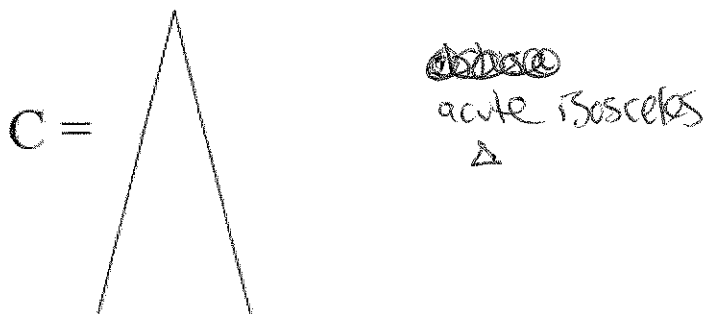
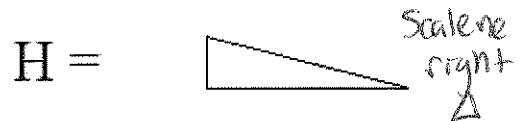
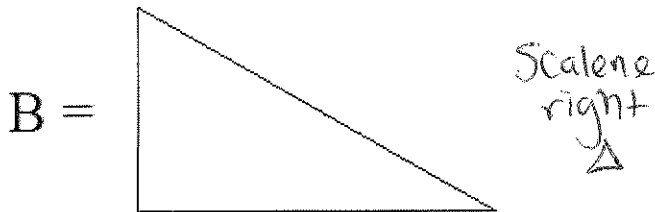
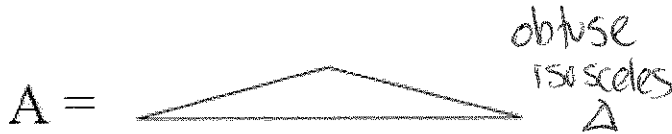
4) Jimmy is 24 ft up a tree. His mom is 57 ft from the tree, telling him to come down. How far is Jimmy from his mom?

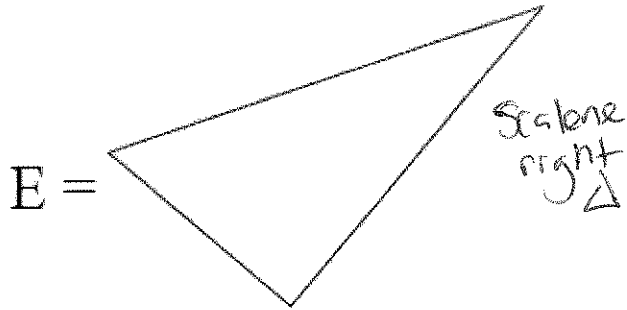
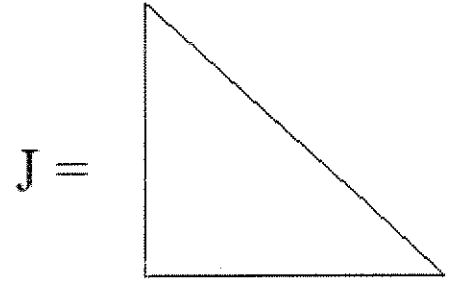
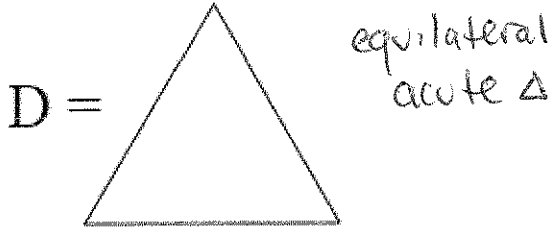


Day 6 Lesson Introduction, Classifying Triangles

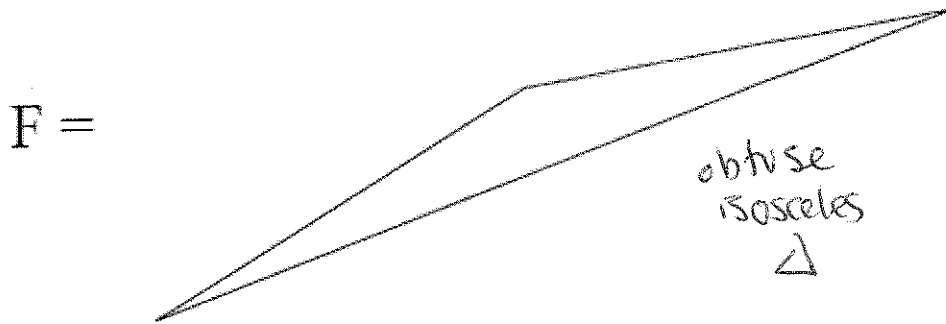
Measure the sides and angles of each triangle. Write the letter of the triangle in the recording table (on the next page) by classifying the triangle.

Triangle Sort





right scalene Δ
 (do a reflection/fold of paper to see it's not isosceles)



Triangle Sort Recording Table

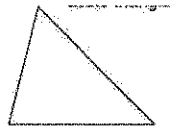
Acute	Obtuse	Right
G C I D	A F	B H E J
Scalene	Isosceles	Equilateral
B H E J	A C I F	G D

Day 6 Main Lesson, Notes

I. Classifying Triangles by their angles

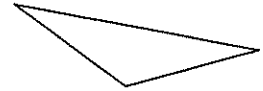
a. Acute Triangle

- i. An acute triangle is a triangle that has all acute angles



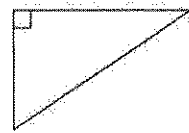
b. Obtuse Triangle

- i. An obtuse triangle is a triangle that has one obtuse angle



c. Right Triangle

- i. A right triangle is a triangle that has one right angle



d. Oblique Triangle

- i. An oblique triangle is a non-right triangle
 ii. These can be acute triangles or obtuse triangles

e. Equiangular Triangle

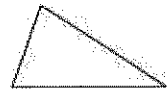
- i. An equiangular triangle is a triangle that has all congruent angles



II. Classifying Triangles by their sides

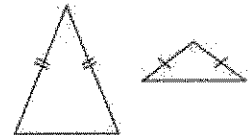
a. Scalene Triangle

- i. A scalene triangle is a triangle that no congruent sides (all different side lengths)



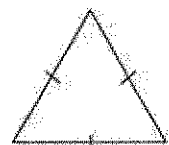
b. Isosceles Triangle

- i. An isosceles triangle is a triangle that has at least two congruent sides



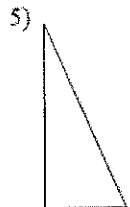
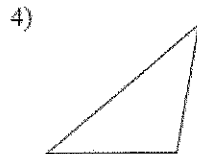
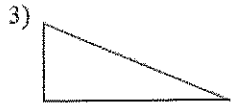
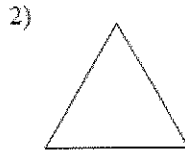
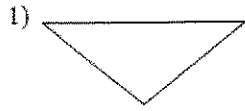
c. Equilateral Triangle

- i. An equilateral triangle is a triangle that has all congruent sides



Day 6 Practice

Classify each triangle by its sides. Base your decision on the actual lengths of the sides and the measures of the angles.



Classify each triangle by its angles and sides.

