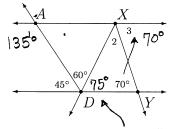
## Math 096 - Quiz 5

March 8, 2017

Name Key Score

Show all work to receive full credit. Supply explanations when necessary.

1. (5 points) Given the figure shown below with  $\overrightarrow{AX} \parallel \overrightarrow{DY}$ , find each of the following:

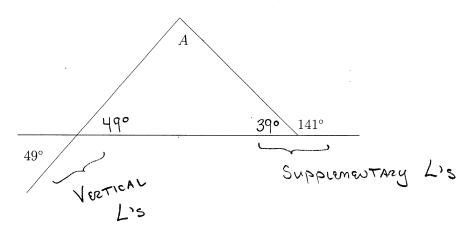


45+60=105

(a)  $m(\angle 1)$ 

= 60°+ 75° = (35°)

- (b)  $m(\angle 2)$ .  $(75^{\circ} + 70^{\circ}) = 35^{\circ}$
- (c)  $m(\angle 3) = \boxed{70^{\circ}}$
- 2. (2 point) Find the measure of  $\angle A$ . Briefly explain your reasoning.



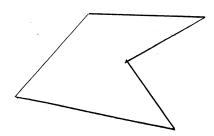
$$= (490)$$
  
 $W(\nabla V) = 1800 - (440 + 340)$ 

3. (1 point) What is a scalene triangle?

A TRIANGLE WITH NO CONGRUENT SIDES.

FIVE-SIDED & DENTED

4. (1 point) Sketch a concave pentagon.



5. (1 point) One of the interior angles of a right triangle measures  $47^{\circ}$ . Find the measure of the other acute angle.