

Key

Score 112: Quiz 5

There are two sides to this quiz. You can use a calculator and a six-sided 3x5" notecard with anything written or typed on it.

1. Use the image on the right to find the following and *justify* your answer!!!

(a) [2] the measure of angle B. (+1)

$$180^\circ - 80^\circ = 100^\circ$$

start (1.5)

(1.5) Since $\angle B + \angle \alpha$ is 180° (a straight line) and $\angle \alpha = 80^\circ$ we can solve for $\angle B$

(b) [3] (Wheater §7.7 #2) two triangles that are similar

$$\triangle ZWV \sim \triangle ZXY$$

start (1.5)
labels (1.5)

(1.5) notice $\angle VZW \cong \angle XZY$ b/c share the edges

(1.5) notice $\angle ZWV \cong \angle ZXY$ b/c \parallel

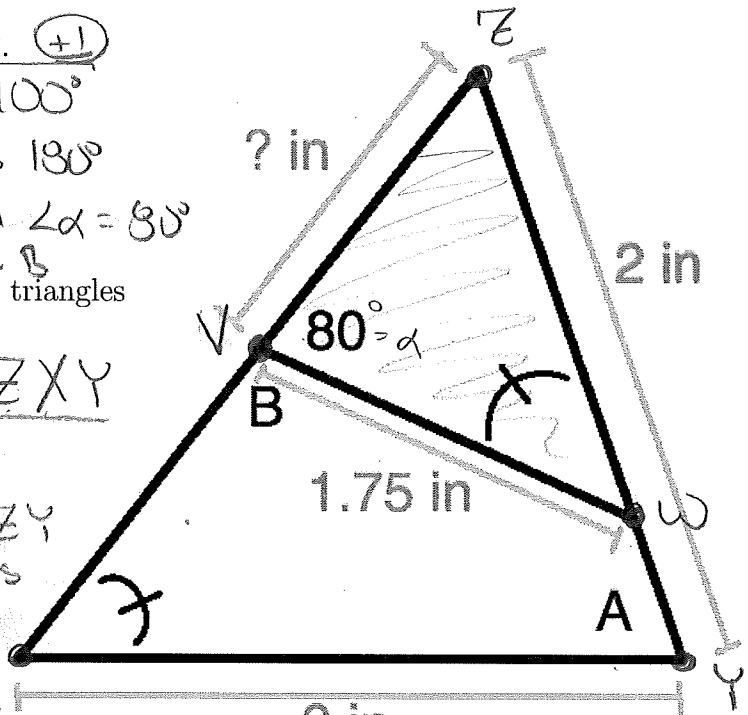
(1.5) since $\triangle ZWV$ and $\triangle ZXY$ are Δ 's and 2 angles are the same, the third must be too!

(c) [2] (Wheater §7.3 #9) the measure of angle A.

(1.5) since $\angle A = \angle ZYX$ which is indicated is congruent to $\angle ZVW \cong 80^\circ$ (by similar Δ 's)

$$\text{we knew } \angle A = 80^\circ$$

(+1)



2. [3] (Discussion 2/26) Draw an example of each of the following:

start (1.5)

last right (1.5)

nothing about sides (1.5)

angle (1.5)

look right (1.5)

(a) isosceles triangle

[at least 2 sides have the same length]

(b) obtuse triangle

[one angle is greater than 90°]



or



or



3. [4] (Lang pg 102-108) Does point splitting (such as the Yoshizawa split) have to be done on corner flap (a flap formed from a corner of the square)? Explain your answer.

sketch (+1.5)

sense (+1)

from lang (+1.5)

true (+1)

(+1)
 No. The splitting techniques (of which Yoshizawa's is only one) can be done on any kind of flap such as one involving the side or middle of the square. The process is a bit harder because of the extra layers of paper though.

4. [2] In Activity 4 you justified that the angles of a triangle always added up to a certain measure. What measure? (Note, you do not need to justify your answer here.)

sketch (+1.5)

right (+1.5)

180° "

5. Reflect on how you prepared for this quiz versus your first quiz in this class.

- (a) [2] Has your study techniques for quizzes changed throughout the course, if so, reflect on how they have changed and why.

sketch (+1.5)

(+1.5)

(+1.5)

- (b) [2] Describe the one study technique that you think is the most effective at helping you do well on quizzes and efficient with your time.

sketch (+1.5)

(+1.5)