

Key

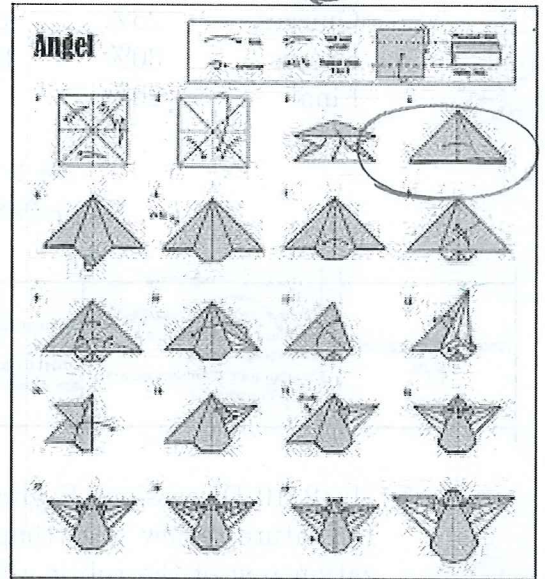
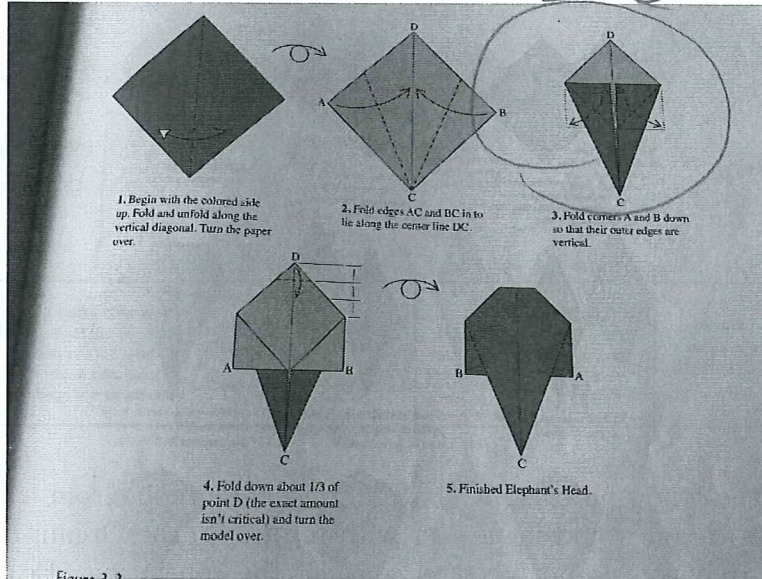
# tcore 112: Quiz 3

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

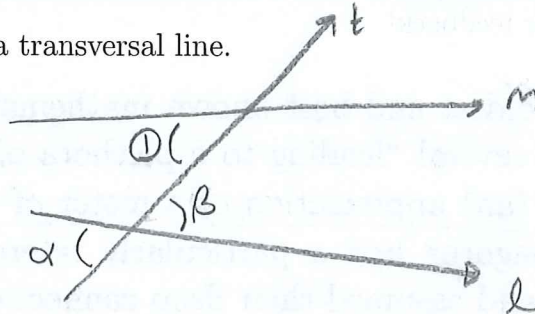
1. [4] (Lang pg 53-58) For each of the following origami patterns, identify the base(s) used.

Kite (+1)

Waterbomb



2. [2] Draw a transversal line.



t is transversal b/c t crosses two other lines (m & l)

3. [2] (Wheater §3.1 #5) On the drawing you made above, identify a pair of vertical angles. There are so many answers?

alpha and beta work

4. [2] (Wheater §3.1 #2) On the drawing you make above, identify a pair of alternating interior angles. ① and beta work

(note: there is another pair that could also work)

5. [2] (GradingActivity #1b) When computing the average score for each category in this class, are there any scores you can ignore/drop? If so, which ones and why?

(+1) The lowest quiz score?

(+1.5) The syllabus indicates that the lowest score is dropped.

$$25 \cdot 8$$

$$= 200$$

$$= \frac{200}{10}$$

$$= 20$$

6. [4] Tony Stark enrolls in a class with four categories (Homework, Quizzes, Exams, Final) weighted as shown below. In week 7 Tony is getting nervous about his marks in the class and would like to know, (assuming that his homework & quiz averages do not change much) what grade does he need to get a 70% in the class. The averages are already computed for Tony in the table below.

Category	weight	Tony's ave
Homework	25%	0%
Quizzes	25%	80%
Exams	30%	100%
Final	20%	x

$$\text{course \%} = \frac{\% \text{ from HW} + \% \text{ from Quiz} + \% \text{ from Exam} + \% \text{ from Final}}{4}$$

$$70 = 0.25 + .80 \cdot 25 + 1 \cdot 30 + x \cdot 20$$

$$70 = 0 + 20 + 30 + 20x$$

$$70 = 50 + 20x$$

$$20 = 20x$$

$$x = 100\%$$

let x be the % on the final

define/create x algebra

start 4.5 weights 11

Writing Organization & Style	*intro or conclusion is missing *content is presented in a confusing manner *paragraphs & sentences are badly constructed	*Intro or conclusion is poorly written *content is present *most paragraphs & sentences are awkward	*intro or concl. are well organized *content is present but not well organized *some paragraphs & sentences are awkward	*intro & concl. are generally organized *organized most of the way through *a few sentences are awkward	*has well written & organized intro, concl. *well organized throughout the paper *Paragraph & sentence structures are used well
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7. [4] (2/10 Discussion) Evaluate the following excerpt (1st and 2nd paragraph) from a Literature review of Pythagoras as you would for a peer with respect to the Organization row of the rubric. Note that you do not need to consider the conclusion. Be careful to provide effective peer feedback!

Pythagorus is one of the oldest and best known mathematicians. Croton was experiencing a religious revival "leading to a plethora of quasi-religious communities...(that) shared (an) appreciation of a roster of taboos and rituals" (Barrow 1992). Pythagorus had a particularly interesting one that seemed to worship numbers and assumed their deep connection with, among other things, geometry.

Perhaps even more famous than the mathematician is the theorem that bears his name. The theorem relates to triangles. Let us denote the three side lengths of a triangle with letters, a, b, and c. Many know the Pythagorean theorem as "A right triangle satisfies the equation,  $a^2 + b^2 = c^2$  where c is the length of the hypotenuse". This version of the Pythagorean theorem is quite useful in finding unknown lengths computationally. Interestingly, this is only half of the theorem! In particular, if  $a^2 + b^2 = c^2$ , then we can say that the triangle has a right angle. This second half of the Pythagorean Theorem thus gives us a way of checking if an angle is  $90^\circ$  or not.

The introduction is not summarizing the Paper?  
or note the 1st P is focused on the Pythagorean Theorem & the theorem is not even mentioned in the "intro"

sense 11 concrete/specific 11

intro discuss 11

level of detail should not be in intro

nice transition to the theorem

could use picture

nice flow - intro symbols before use