tcore 102: Quiz 4

There are two sides to this quiz. You can use a calculator and a 5-sided 3×5 " notecard with anything written or typed on it.

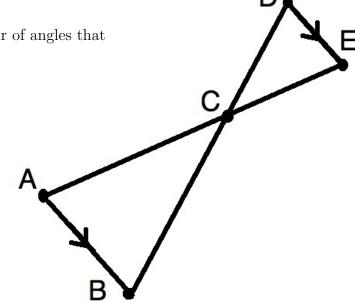
1. [4] (10/30 Discussion) Critque the following "definition" of science: "Science is the study of the structure and behavior of the physical and natural world".

2. [3] (11/1 Lecture) Describe some of the ways that Origami was used and taught when first created.

- 3. [4] Draw an example for each of the following:
 - (a) Right triangle
 - (b) Isosceles triangle

- 4. For the following questions consider the figure shown on the right. Note that \overline{AB} is parallel to \overline{DE} .
 - (a) [2] (Wheater $\S 7.3$) Identify a pair of angles that have the same measures.

(b) [1] Identify what kind of triangle $\triangle ABC$ is (acute? obtuse? right?).



(c) [3] (Wheater §7.4) Given that:

$$\overline{AB} = 21\underline{x}, \ \overline{AC} = 30,$$

$$\overline{CE} = 5, \ \overline{DE} = 3x + 1,$$

$$\overline{CB} = 18, \ \overline{DC} = 3.$$

Set up a true equation involving x that will allow you to solve for x.

(d) [2] Find x from problem b above.