## tcore 102: Quiz 4

There are two sides to this quiz. You can use a calculator and a 5 -sided $3 \times 5$ " 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 $\overline{A B}$ is parallel to $\overline{D E}$.
(a) [2] (Wheater §7.3) Identify a pair of angles that have the same measures.
(b) [1] Identify what kind of triangle $\triangle A B C$ is (acute? obtuse? right?).

(c) $\frac{[3]}{A B}$ (Wheater §7.4) Given that:
$\overline{A B}=21 x, \overline{A C}=30$,
$\overline{C E}=5, \overline{D E}=3 x+1$,
$\overline{C B}=18, \overline{D C}=3$.
Set up a true equation involving $x$ that will allow you to solve for $x$.
(d) [2] Find $x$ from problem b above.

