For the following limit forms, either give the answer or label it as indeterminate. Be ready to discuss/explain your answers next class.

Remembering that these are results of limits, it's smart to think:

- 0 = a number very close to zero that might be positive or negative, and that's getting closer to zero.
- $\infty$  = a very big positive number, that's getting infinitely bigger.
- 1 = a number very close to 1, that's getting closer to 1, but it might be less than 1 or greater than 1.

(1) 
$$\frac{0}{0}$$

(2) 
$$\frac{\infty}{\infty}$$

(3) 
$$\frac{0}{\infty}$$

(4) 
$$\frac{\infty}{0}$$