Write legibly. Show your work. Graph neatly. Use a ruler for all straight lines.

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.
- ∞ = 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.

(7)

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

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

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

(9)
$$0^\circ = indeterminate$$

(4)
$$\frac{\infty}{0} = +\infty, -\infty, \text{ or may}$$

(10)
$$0^{\circ} = \bigcirc$$

(11)
$$\infty^0 = indeterminate$$