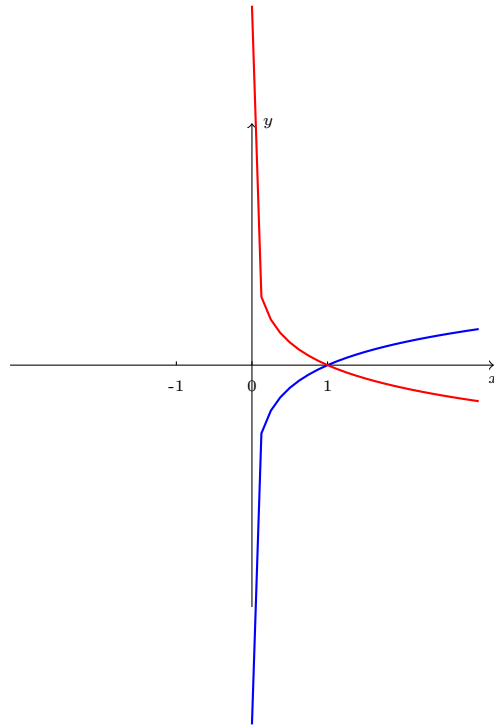# SOEN6011 Team F

Yanzhen Li

Logarithmic function : f(x) = $\log_a X$

Student id: 40054428

BLUE LINE : f(x) = $\log_{10} X$

RED LINE : f(x) = $\log_{0.5} X$

DOMAIN: a:$(0,1) \cup (1, +\infty)$ $X : (0, +\infty)$

1

CO-DOMAIN: R

CHARACTERISTICS:
Fixed point: Function image is always over fixed point (1,0).

Monotonicity: when a>1, it is a monotonic increasing function in the domain of definition.

Parity: Non-odd and Non-even Functions

Periodicity: not a periodic function

Symmetry: None

Null point: X=1