

Name : _____ ID. # : _____ SER. # : _____

1. Graph $y = \log_2 |x - 4|$, show all intercepts. (4 pts)

2. Find the range and asymptote(s) of $y = e^{x+3} - 5$ (2 pts)

3. Given $\log 2 = 0.3010$, $\log 3 = 0.4771$, find the value of:

$\log \frac{40}{9}$, $4 \log_{.01} \sqrt{2}$, $\frac{\ln 8}{\ln 10}$, $e^{(\ln 36 - 2 \ln 3)}$ (4 pts)