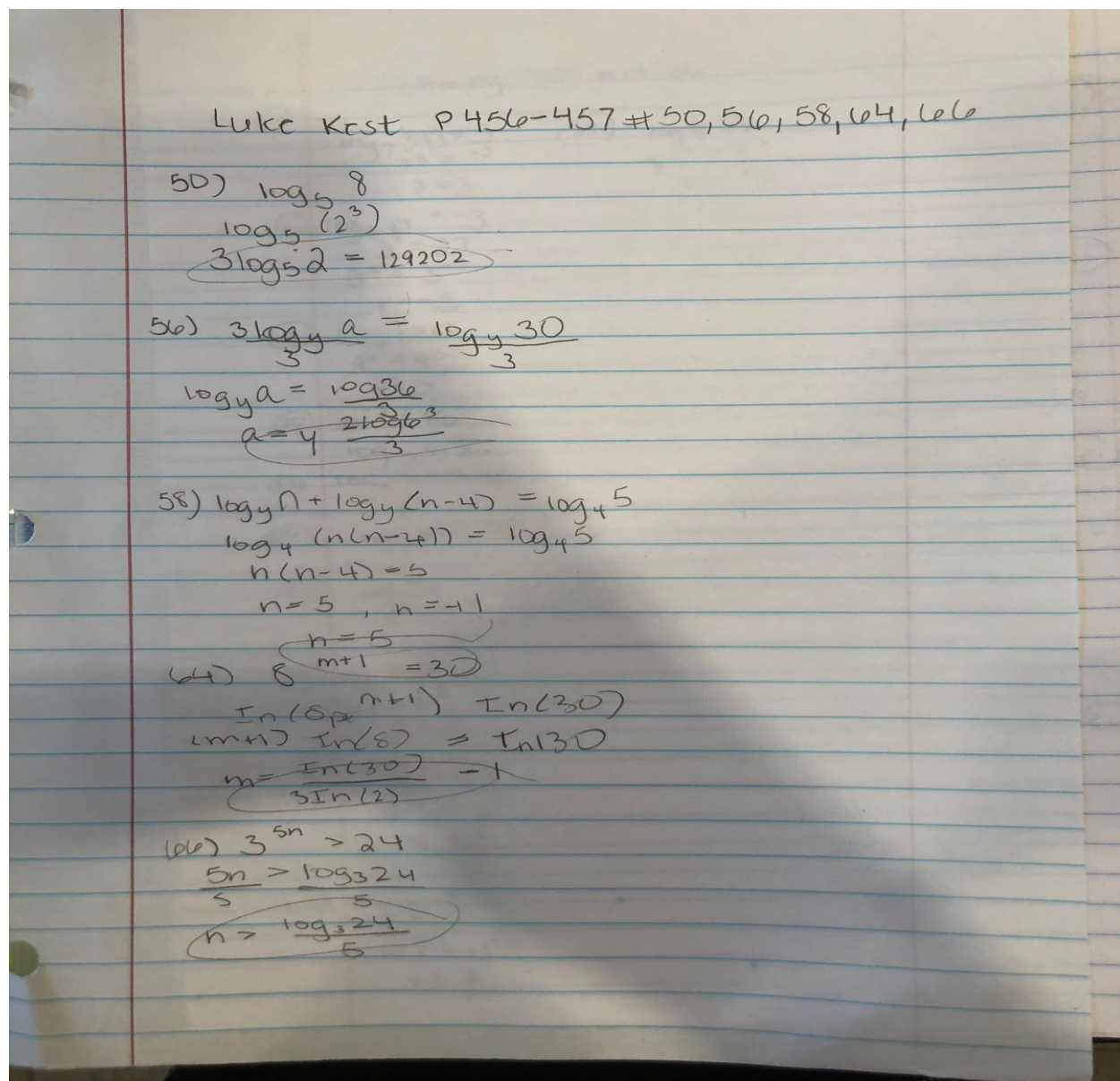Here you will submit a picture of your work for pg 456-457 #50, 56, 58, 64, 66.  This is due by 3.23 at 10 PM!  Upload a picture into this document.  If you have any issues please email me your submission to zukatusjoh@hhschools.org

Luke Kest   P456-457 #50, 56, 58, 64, 66

50)  $\log_5 8$

$\log_5 (2^3)$

$3\log_5 2 = 1.29202$

56)  $3\log_y a = \log_y 30$

$\log_y a = \dfrac{\log 36}{3}$

$a = y^{\frac{2\log 6^3}{3}}$

58)  $\log_y n + \log_y (n-4) = \log_4 5$

$\log_4 (n(n-4)) = \log_4 5$

$n(n-4) = 5$

$n = 5 , \quad n = -1$

$n = 5$

64)  $8^{m+1} = 30$

$\ln(8^{m+1}) \quad \ln(30)$

$(m+1) \ln(8) = \ln 30$

$m = \dfrac{\ln(30)}{3\ln(2)} - 1$

66)  $3^{5n} > 24$

$\dfrac{5n}{5} > \dfrac{\log_3 24}{5}$

$n > \dfrac{\log_3 24}{5}$

Luke Kest