

SMDEP: PRE-CALCULUS

HOMEWORK: 6/22

1. Simplify

(a) $e^{2\ln x}$

(b) $\ln \frac{e^{2x}}{e^x}$

(c) $\ln(x^2y^3)$

(d) $e^{\ln(3x+2)}$

(e) $\ln(\sqrt{e^x})$

2. Solve for x

(a) $2e^{x+4} = 10$

(b) $3 \log(2x + 6) = 6$

(c) $\log(x^2 - 144) = \log(x + 12)$

(d) $e^{(x^2-25)} = 1$

book work: pg.145 #9-14.