

Answers to Practice Problems for Midterm II

1. $13,500 \text{ cm}^3 = .0135 \text{ m}^3$

2. (a) 3

(b) $\frac{1}{3}$

(c) $\frac{1}{3}$

(d) 20

3. (a) $y = 2x + 1$

(b) (2,5)

4. 1925

5. 6 days

6. (a) 10^{-9}

(b) $\log(45)$

(c) $\log(b^a)$

(d) $\log(x^{y-1})$

7. (a) $\log(5.53) = 0.7427$; $\log(23.4) = 1.3692$

(b) $\log(5.53 * 23.4) = 2.1119$

(c) $\text{antilog}(2.1119) = 129$