

### Problem Set 96

2a.  $x = -1, 0, \frac{1}{2}$

b. max: 1, min: 0

4.  $\frac{11}{6}$

6. C

8.  $T_5 = 1.115$

10.  $V = \pi \int_0^1 (-x^4 - x^2 + 2x) dx$

12.  $\frac{291}{232}$

14. 0

16.  $e^3$

- 18a. odd  
b. odd  
c. even  
d. even

20.  $\pi \text{ units}^2$

22.  $x > 2$

24. E