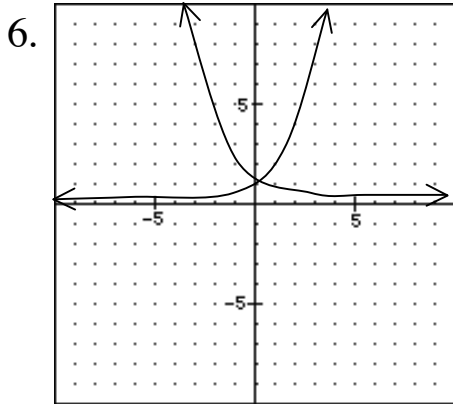


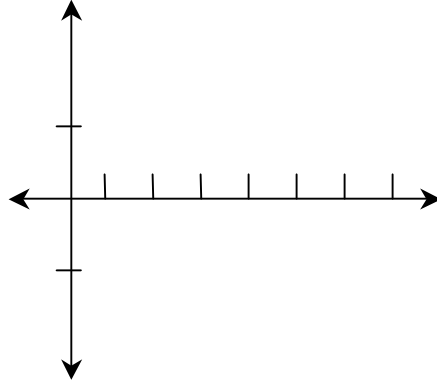
**Calculus — Problem Set 7**

2.  $F = 2$

4.  $x \approx -0.4840$   
 $x \approx 1.8972$



8.



10. False

12. Domain: *Reals*  
 Range:  
 $\{y \in R \mid -1 \leq y \leq 1\}$

14.  $2\sqrt{3}$

16. 0

18.  $\frac{3}{7}$

20.  $\pm 2\sqrt{2}$

22. B

24.  $d = 13$

**Calculus — Problem Set 8**

2.  $V = 125x - \frac{1}{2}x^3$

4.  $(-1.0638, -3.9959)$

6. 1

8.  $\frac{4}{5}$

10.  $-\frac{5}{4}$

12. -1

14.  $x = 2, 1$

16.  $h = \frac{ax}{4-a}$

18.

20. B and D

22.  
 $(-0.8807, 0.7756)$   
 $(0.8607, 0.7756)$

24. D