

## Math 140 Exam 2

### Fall 2003 Answers

1.a, 2.e, 3.b, 4.a, 5.a, 6.d, 7.d, 8.c, 9.d, 10.b

11. Ask in class

12.(a) Horizontal asymptote  $y = 0$ , vertical asymptote  $x = 2$

(b)  $f$  is increasing on  $(2, 4)$

13. The box should have dimensions  $2 \times 2 \times 1$  meters

14.(a)  $x = 3$ , (b)  $x = 1$  and  $5$ , (c)  $x = 2, 4, 6$ , and  $7$

15. 9 cm/min