

MATH 140A  
 EXAM 2 Key  
 SPRING 2006

ITEM NO.	FORM:
1	A
2	B
3	E
4	D
5	D
6	C
7	B
8	B
9	D
10	A
11	E
12	D
13	C
14	D
15	E
16	C
17	E
18	E
19	A
20	A

Math 140A  
 Exam 2  
 SPRING 06

21.  $\frac{dd}{dt} = -\frac{1}{54\pi} \frac{cm}{min}$

22. absolute min = 12  
 absolute max = 256

23.  $4000 \text{ cm}^3$

24. a)  $(-\infty, -3) \cup (-3, 3) \cup (3, \infty)$

b) (0,0)

c) origin symmetry

d) HA:  $y=0$ ; VA:  $x=3, x=-3$

e) no critical numbers

f) decreasing on domain

g) none

h) CU:  $(-3, 0), (3, \infty)$

CD:  $(-\infty, -3), (0, 3)$

i) (0,0)

j)

(graph)

