

MA 111 Exam 1  
Spring 2001

1. A

2. C

3. D

4 (a)  $2.5 \times 10^{14}$

(b)  $9.6 \times 10^{-7}$

(c)  $2.4 \times 10^8$

5. (a)  $\frac{15}{4}$  or 3.75

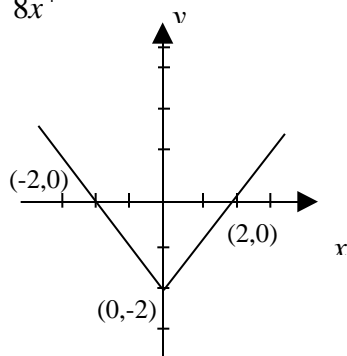
(b)  $-\frac{9}{4}$  or -2.25

6. 8.5%

7. (a)  $-\frac{36}{x^8 y}$

(b)  $\frac{y^{16}}{8x^4}$

8.



9. 96

10.  $96.5^\circ$