

MA 153 Exam 2 Answers  
Fall 2001

1. (a)  $\sqrt{85}$

(b)  $-1, \frac{5}{2}$

2.  $-21 - 20i$

3. Center:  $(4, -6)$

radius =  $\sqrt{55}$

4.  $x = \frac{1 \pm i\sqrt{11}}{3}$

5.  $-\frac{17}{2}, \frac{23}{2}$

6.  $x - 3y = 11$

7.  $(-\infty, -4] \quad \frac{1}{2}$

8. (a)  $x = 7$

(b)  $x = \pm 2, \pm \sqrt{3}$

9. 20 cm

10.  $N = 7d + 75$