Answers, Exam 2   MA 15200   Fall 2008

1) $x = 5 \pm 2\sqrt{2}$

2) $x = \frac{2}{3}, \ 3$

3) $-43 + 46i$

4) $\frac{1}{10} - \frac{3}{10}i$

5) $x = 6$

6) $\left(-\infty, -\frac{48}{5}\right)$

7) $(-\infty, -7] \cup [3, \infty)$

8)   All are paired correctly.
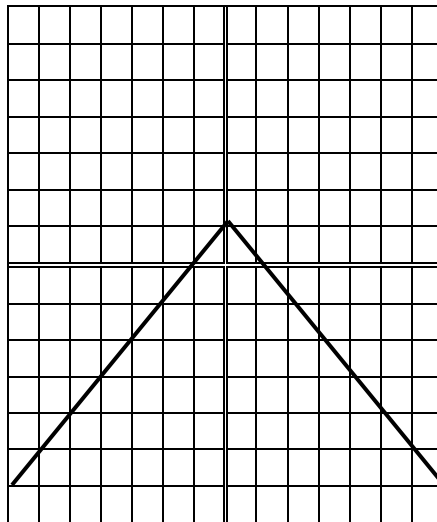
9) $3\sqrt{5}$

10) $5x + 3y = 7$

11) $y = -\frac{3}{5}x + 9$

12)   At least 3 hours, but less than 4 hours $\left(3\frac{1}{13} \text{ hours}\right)$

13)

14) $(240 - 12x)(1 + 0.25x) = 324$

15) $V = 12t + 50$