

Exam 2 Answers
MA 15200X, Spring 2010

| | | Form A | Form B |
|-----|--|---------------|---------------|
| 1) | $\frac{x}{30} = \frac{x}{3} - 1$ | E | C |
| 2) | $7 - 24i$ | B | D |
| 3) | It is between -4 and 0 . ($x = -3, 11$) | E | A |
| 4) | $x = -5, \frac{2}{3}$ | C | B |
| 5) | $x = -\frac{5}{4} - \frac{\sqrt{15}}{4}i$ | C | E |
| 6) | There is one rational solution. | A | D |
| 7) | $x^2 + 13x - 30 = 0$ | B | E |
| 8) | There is one solution and it is positive ($x = 3$) | A | C |
| 9) | $x = 22$ | D | A |
| 10) | None of the above. ($x \geq \frac{11}{14}$) | E | E |
| 11) | $[-2, 3]$ | A | C |
| 12) | $y = -x^2 + 2$ | D | A |
| 13) | $\left(-2, -\frac{11}{2}\right)$ | D | A |
| 14) | $f(-2) = 3$ $g(-3) = \frac{3}{4}$ | E | B |
| 15) | I, II, and III | A | B |