

MA 15200 Exam 1 Answers, Fall 2010

| Problem | A (green) | B (orange) | Actual Answer |
|---------|-----------------------------------|-----------------------------------|--|
| 1 | C | E | 12 |
| 2 | A | B | $\{-\frac{2}{3}, -11, \sqrt{49}, 3.8, 0\}$ |
| 3 | C | D | $\frac{-108x^{15}}{y^8}$ |
| 4 | E | A | 7×10^2 or 700 |
| 5 | A | D | $\frac{11\sqrt{2}}{4}$ |
| 6 | C | A | 3 |
| 7 | E $(x^3 + 2x^2 + 5x - 4)$ | E $(x^3 + 2x^2 + 5x - 4)$ | None of the above. |
| 8 | E | C | $5x^3 + 19x^2 - 4x$ |
| 9 | A | C | I only |
| 10 | D | B | $2x - 3$ |
| 11 | D | E | $\frac{3(x+3)}{(x-3)^2}$ |
| 12 | B | C | $\frac{6}{x-2}$ |
| 13 | D $\left(a = \frac{13}{2}\right)$ | B $\left(a = \frac{13}{2}\right)$ | The solution is between 6 and 10. |
| 14 | B | A | $0.035x + 0.03(1200 - x) = 40.25$ |
| 15 | B | E | $t = \frac{S - P}{Pr}$ |