# Exam 3B

| Question # | Form B | Answer |
|:---:|:---:|:---:|
| 1 | A | $\dfrac{15}{4}$ |
| 2 | D | $\dfrac{1}{x^2 + 3x}$ |
| 3 | C | $(1, 5) \cup (5, \infty)$ |
| 4 | B | $f^{-1}(x) = \dfrac{5x}{3 + x}$ |
| 5 | E | None of the above |
| 6 | A | $x$-intercepts: $(6, 0), (-4, 0)$;<br>$y$-intercept: $(0, -24)$ |
| 7 | A | See exam |
| 8 | B | $-3$ |
| 9 | C | $x = -1, x = \dfrac{9}{5}$ |
| 10 | E | There is no solution |
| 11 | A | $(-\infty, -5) \cup [-3, 5)$ |
| 12 | A | $k = -2$ |
| 13 | A | At least 100, but less than 200 |
| 14 | C | $y = \dfrac{1}{125}(x - 50)^2 + 20$ |
| 15 | D | $k = 8.4$ |