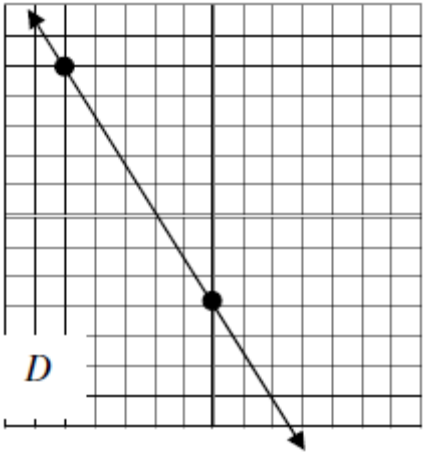


MA 15200 Exam 3 Answers  
Spring 2010

- |   | Form A | Form B |
|---|--------|--------|
| 1) $g(-2) = 2, g(-1) = 1, g(2) = 4$   | (A)    | (C)    |
|  |        |        |
| 2)  | (D)    | (D)    |
| 3) $x$ -intercept: $-3$ $y$ -intercept: $-9$                                      | (C)    | (A)    |
| 4) $8.5$  | (A)    | (D)    |
| 5) $x = 2.26$   | (B)    | (C)    |
| 6) $(g \circ f)(x) = x + 2$   | (C)    | (E)    |
| 7) II and III only  | (C)    | (B)    |
| 8) The graph of $g(x) = 5^x$ lies in quadrants I and IV.                          | (E)    | (B)    |
| 9) $\log_2\left(\frac{1}{8}\right) = -3, \log_9 3 = \frac{1}{2}$                  | (C)    | (E)    |
| 10) 74 cows   | (B)    | (D)    |
| 11) The model underestimated by 1.4%  | (A)    | (E)    |
| 12) $x = \frac{1}{11}$  | (E)    | (A)    |
| 13) $\log\left(\frac{8x^2}{\sqrt{x+1}}\right)$                                    | (D)    | (B)    |
| 14) $a = 3$   | (B)    | (A)    |
| 15) 4   | (D)    | (D)    |