EXAM 2 ANSWERS, FALL 2010

PART I

VERSION A	VERSION B
 a c d d b 	 b d c a c
6. c	6. a
7. e	7. d
8. b	8. e
9. e	9. b
10. a	10. c
11. c	11. a
12. e	12. b
13. b	13. e
14. b	14. d

PART II

1. (a)
$$g^{-1}(x) = \frac{-x}{4x-1}$$

(b)
$$f^{-1}(-2) = 1$$

(c) $-\frac{1}{3}$

(c)
$$-\frac{1}{3}$$

$$2. -\frac{1}{13} + \frac{8}{13}i$$

(b)
$$\pm i, 1, -3$$

4. (a)
$$1)x \neq -1$$

2)
$$x = -1$$

3)
$$y = 1$$

4)
$$x = \frac{1}{3}$$

5)
$$x = 1, 3; y = 3$$

(b) Graph

4. (a)
$$p = -\frac{2}{5}x + 80$$

(b)
$$R = -\frac{2}{5}x^2 + 80x$$

1. (a)
$$g^{-1}(x) = \frac{-x}{3x - 1}$$

(b)
$$f^{-1}(-1) = 2$$

(c) $-\frac{2}{5}$

(c)
$$-\frac{2}{5}$$

2.
$$-\frac{4}{13} - \frac{7}{13}i$$

(b)
$$\pm i, -1, 4$$

4. (a)
$$1)x \neq 2$$

2)
$$x = 2$$

3)
$$y = 1$$

4)
$$x = \frac{6}{5}$$

5)
$$x = -2, 1; \ y = -\frac{1}{2}$$

4. (a)
$$p = -\frac{3}{5}x + 120$$

(b)
$$R = -\frac{3}{5}x^2 + 120x$$