

EXAM 1 ANSWERS, FALL 2010

PART I

VERSION A

1. c
2. b
3. d
4. d
5. a

6. c
7. e
8. e
9. b
10. a

11. c
12. d
- 13.
14. e

VERSION B

1. a
2. d
3. b
4. c
5. b

6. a
7. a
8. d
9. e
10. b

- 11.
12. e
13. c
14. d

Note: The credits are given to all students for #13 in version A and #11 in version B.

PART II

1. $\frac{-4 - h}{4(h^2 + 4h + 4)}$

2. (a) $x = -1$; $y = -5$
(b) $r = \sqrt{13}$
(c) $x^2 + y^2 - 2x + 4y - 8 = 0$

3. (a) $x = -\frac{1}{4}$
(b) $x = -3$

4. (a) & (b) $x = \frac{1 \pm \sqrt{6}}{2}$

1. $\frac{-6 - h}{9(h^2 + 6h + 9)}$

2. (a) $x = -5$; $y = 3$
(b) $r = \sqrt{17}$
(c) $x^2 + y^2 + 2x - 4y - 12 = 0$

3. (a) $x = \frac{1}{4}$
(b) $x = -2$

4. (a) & (b) $x = \frac{-1 \pm \sqrt{2}}{2}$