ALEKS® Factoring Quiz #1

Beginning Algebra / Math 100 – Master No Book (Prof. Miller)

Student Name/ID:

Instructor Note:
Directions: Every problem is worth two points. One point is for trying the problem and showing your work and one point is for getting the correct answer. There are an additional five points for demonstrating the study strategy that is posted on the board and talked about at the beginning of class.

1. Factor.

$$3y^2 - 4y - 20$$

2. Factor by grouping.

$$wy - 20w + 5y - 4w^2$$

3. Factor by grouping.

$$5y^3 - 2y^2 - 35y + 14$$

4. Factor by grouping.

$$7v-3u^2-uv+21u$$

5. Factor $6y^2+9y^3$

6. Factor.

$$y^2-10y+16$$

7. Find the greatest common factor of $9x^2$ and $6y^3$

8. Factor.

$$4-25w^2$$

9. Factor completely.

$$9x^5+24x^4+12x^3$$

10. Find the greatest common factor of these two expressions.

$16y^4u^6v^2$ and $24u^8v^7$

11. Factor the following expression.

$18vw^7y^2 - 24v^4w^9$

12. Factor.

$49v^2 - 64$

13. Factor.

$9y^2 - 18y - 7$

14. Factor the following expression.

$18u^9v^8 + 30u^2v^2x^5$

15. Factor by grouping.

$$3y^3+5y^2-6y-10$$

Factoring Quiz #1 Answers for class Beginning Algebra / Math 100 – Master No Book

1. $(y+2)(3y-10)$
2. $(w+5)(y-4w)$
3. $(5y-2)\left(y^2-7\right)$
4. $(7-u)(v+3u)$
5. $3y^2(2+3y)$
6. $(y-2)(y-8)$
7. 3
8. $(2+5w)(2-5w)$
9. $3x^3(x+2)(3x+2)$
10. $8u^6v^2$
11. $6vw^7\left(3y^2-4v^3w^2\right)$
12. $(7v+8)(7v-8)$
13. $(3y+1)(3y-7)$
14. $6u^2v^2\left(3u^7v^6+5x^5\right)$
15. $(3y+5)\left(y^2-2\right)$