Algebra 1+   Name_____Hour_____

SKILLS REVIEW – FACTORING – MARCH 23RD – 27TH

List the greatest common factor of the following:

1. (a) $6x^2,\ 15x^3$ (b) $5xy,\ 20x^2$ c) $4x^2, 10x$

Factor out the greatest common factor. (Your answer should include one parentheses)

2. (a) $4x^2 + 12x^3$ (b) $3x + 15$ c) $3x^2 + 9x + 27$

3. Factor the difference of squares into 2 parentheses:

a) $x^2 - 25$ b) $x^2 - 64$ c) $4x^2 - 49$

4. Factor the trinomial into 2 parentheses:

a) $x^2 + 10x + 25$

b) $x^2 + 14x + 45$

c) $x^2 - 8x + 7$

d) $x^2 + 1x - 20$

e) $x^2 + 11x + 24$

f) $x^2 - 15x + 56$

5. Which of the following is the greatest common factor of the terms $18xy^2$, $30x^5y^4$, and $12x^3y^3$?

(a) $30x^4y^4$

(b) $5xy$

(c) $6xy^2$

(d) $12x^2y^2$

6. Which of the following is *not* a factor of the expression $5x^2 - 15x$?

(a) 5

(b) $3x$

(c) x

(d) $x-3$

7. Which of the following is *not* a correctly factored form of the binomial $24x^2 - 40x$?

(a) $8\left(3x^2 - 5x\right)$

(b) $4x\left(6x - 10x\right)$

(c) $8x\left(3x - 5\right)$

(d) $4\left(6x^2 - 10x\right)$