MPM2DI

Unit 3 Test: Factoring and Expanding Polynomial Expressions

Name: _____

Max Marks: 24

Show full solutions, as was done in the lessons, on separate paper. Take a picture or scan your responses and attach the picture or scan in an email to your teacher.

[4] 1. Expand and then simplify by collecting like terms.

a) $(x+2)(3x+4)$

b) $-2(x+5)^2$

[3] 2. What is your favorite process [a-c chart, decomposition, or guess and check] to factor the following tricky trinomial? Explain why. $2x^2+7x+3$.

[2] 3. Identify each polynomial as a monomial, binomial or trinomial.

a) $6z^3-5z$ _____

b) $-2xyz$ _____

[3] 4. Factor these sum and product trinomials.

a) t^2+9t+8

b) $x^2-2x+15$

[12] 5. Factor these polynomials.

a) $8m^3-4m^2$ b) $15n^2+14n-8$ c) $5x^2-2x-7$ d) y^2-4

e) $2x+2y+x^2+xy$ f) $3x^2-30x+27$

Bonus$_1$: Correctly spell your math teachers last name. [+1]
Bonus$_2$: Type/Write out a unique math joke that involves factoring. [+1]
Bonus$_3$: Factor $y^2-2y+1-x^2$. [+1]

My signature indicates that my assignment responses were independently written by me.

_____	_____	_____
Name	**Signature**	**Date**