

-Math 10 100% Quiz

Name _____

Name the coefficient(s): $6x + 2y - z$	Name the variable(s): $5x - 2y$	Name the constant(s): $3x - 5$
Simplify: $3x - 5 + 2x - 3$	Simplify: $x^2 - 3x + 5x - 3x^2$	Simplify: $10a - 3b - 10a + 4b$
Add: $(3x + 5) + (7 - 2x)$	Add: $(3 + 5x) + (7 - 2x)$	Add: $(3x + 5y + 7) + (7y - 2 + 3)$
Subtract: $(3x + 5y) - (-2 + 3x)$	Subtract: $(3x + 5y) - (2y + x)$	Subtract: $(3x + 5y + 10) - (2y - 7)$
Expand: $2(3x + 5y + 10)$	Expand: $2x(3x - 5y - 10)$	Expand: $-x(3x - 10)$

Expand: $(x - 4)(3x - 10)$	Expand: $(x - 3)(x + 10)$	Expand: $(2x - 3)(x + 1)$
Expand: $(x - 4)(x^2 + x + 5)$	Expand: $(x - 3)(x^2 + 2x - 4)$	Expand: $(x + 5)(2x^2 + x - 2)$
Expand: $(x + 2)^2$	Expand: $(x + 5)^2$	Expand: $(2x - 1)^2$
Expand: $(x - 1)^3$	Expand: $(2x - 1)^3$	Expand: $(2x - 5)^3$

Factor: $25xyz - 15xy^2$	Factor: $6x + 9xy - 12x^2y$	Factor: $6x^2y^3 + 9xy^4 - 21x^2y^3$
Factor: $25x^2 - 36y^2$	Factor: $16x^2 - y^2$	Factor: $49x^2 - 4$
Factor: $x^2 - 3x - 28$	Factor: $x^2 + 2x - 80$	Factor: $x^2 + 10x + 24$
Factor: $4x^2 + 12x + 9$	Factor: $9x^2 + 6x + 1$	Factor: $25x^2 - 20x + 4$

Factor: $5x^2 - 12x + 4$	Factor: $2x^2 - x - 15$	Factor: $7x^2 - 13x - 2$
Factor fully: $(x - 5)^2 - 1^2$	Factor fully: $x^4 - 17x + 16$	Factor fully: $x^4 - 16$
Factor fully: $2x^4 - 9x^2 + 4$	Factor fully: $2x^2 - 8x^2 + 8$	Factor fully: $2x^2 - 8$
What value(s) of k make this trinomial factorable? $2x^2 + kx - 3$	What value(s) of k make this trinomial factorable? $6x^2 + kx - 2$	What value(s) of k make this trinomial factorable? $x^2 + kx + 24$