

ALGEBRA 1A
Q4 HW6

* ALL WORK
ON LOOSE LEAF

NAME: _____

PERIOD: _____ DATE: _____

ORDER OF OPERATIONS:

① $(5+2)^3 + 4 - 2^3 \cdot 6$ ② $3x - y - (2x + 4y)$

③ $7x + \frac{12x + 3x}{3}$ ④ $7.2 - |-2.1 + 0.3|$

ADD & SUBTRACT POLYNOMIALS:

⑤ $4(x^2 + 2) + 6(3x^2 - 5)$ ⑥ $\frac{1}{2}x + \frac{2}{3}y + 2x - y$

⑦ $\frac{1}{5}x + \frac{1}{5}y + 2(\frac{1}{2}x + \frac{1}{2}y)$ ⑧ $(x + y) - (3x - 2y)$

⑨ $\frac{8x + 1}{2} + \frac{6x + 3}{3}$

MULTIPLY POLYNOMIALS:

⑩ $\frac{2x}{5} \cdot \frac{3x}{2}$ ⑪ $(5x - 6)(4x + 5)$

⑫ $(x - 6)(x + 6)$ ⑬ $(2x)(3y) - (5x)(-2y)$

⑭ $\left[\frac{7x + 1}{10}\right]^2$ ⑮ $5x^2(7x)^2$

⑯ $(x^2y^4)^3$

MULTI-STEP EQUATIONS OF FIRST DEGREE:

⑰ $-6x - 5 = -x + 12$ ⑱ $\frac{x}{9} = \frac{x - 8}{3}$

⑲ $5(-2x + 4) = 18$ ⑳ $3x - 2 = 9(x + 1)$