Algebra 1 Weds. 2-27-13 Class Notes

(Ex)

$(2x-3)+(7x+4)$

$2x-3+7x+4$

$\boxed{9x+1}$

linear binomial

(Ex)

$(3x-2)(4x+6)$

$12x^2+18x-8x-12$

$\boxed{12x^2+10x-12}$

quadratic trinomial

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(55) $\left(\dfrac{-2r^4}{-2r^{-2}}\right)^2$

$\left(\dfrac{-2r^5}{-2r^{-2}}\right)^2 = \left(r^{5-(-2)}\right)^2$

$= \left(r^7\right)^2 = \boxed{r^{14}}$

(ex) $\left(\dfrac{10x^{-2}xx^{3}}{5x^{-5}}\right)^{3}$

$\left(\dfrac{2x^{2}}{x^{-5}}\right)^{3} = \left(\dfrac{2x^{7}}{1}\right)^{3}$

$= \boxed{8x^{21}}$

$(x^{7})^{3} = (x^{7})(x^{7})(x^{7})$

$= (xxxxxxx)(xxxxxxx)(xxxxxxx)$

$= \boxed{x^{21}}$

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(29) $(-3u-8v)(-2u^2-4uv-8v^2)$

$+6u^3+12u^2v+24uv^2$

$+16u^2v+32uv^2+64v^3$

$\boxed{6u^3+28u^2v+56uv^2+64v^3}$

(31.) $\left(\frac{4}{3}a+\frac{4}{3}\right)\left(\frac{3}{2}a+\frac{10}{3}\right)$

$\frac{12}{6}a^2+\frac{40}{9}a$

$+\frac{12}{6}a+\frac{40}{9}$

$2a^2+\frac{40}{9}a+\frac{2}{1}a+\frac{40}{9}$

$2a^2+\frac{40}{9}a+\frac{18}{9}a+\frac{40}{9}$

$\boxed{2a^2+\frac{58}{9}a+\frac{40}{9}}$