Algebra 1 TUES. 5-14-13 CLASS NOTES

WS Practice

③ $(2r^4 - 3) + (5r^4 - 8)$

$2r^4 - 3 + 5r^4 - 8$

$7r^4 - 11$

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⑦ $\left(\frac{5}{2}x - \frac{9}{8}x^3\right) - \left(\frac{9}{8}x - \frac{3}{2}x^3\right)$

$\frac{5}{2}x - \frac{9}{8}x^3 - \frac{9}{8}x + \frac{3}{2}x^3$

$\frac{20}{8}x - \frac{9}{8}x^3 - \frac{9}{8}x + \frac{3}{2}x^3$

$\frac{11}{8}x - \frac{9}{8}x^3 + \frac{12}{8}x^3$

$\frac{11}{8}x + \frac{3}{8}x^3$

$\frac{3}{8}x^3 + \frac{11}{8}x$

(13) $(4x+6y)(6x+8y)$

$24x^2 + 32xy + 36xy + 48y^2$

$24x^2 + 68xy + 48y^2$

(19) $(2m+4)(8m^2+8m-4)$

$16m^3 + 16m^2 - 8m$

$+ 32m^2 + 32m - 16$

$16m^3 + 48m^2 + 24m - 16$

(37) $\left(\frac{29}{8}b + \frac{11}{5}\right)^2$

$\frac{29^2}{64}b^2 + 2\left(\frac{29}{8} \cdot \frac{11}{5}\right)b + \frac{121}{25}$

$\frac{841}{64}b^2 + \frac{319}{20}b + \frac{121}{25}$

29
29
261
58
841

(45) $(2N+1)(2N-1)$

$4N^2 - 1$

$(a+b)(a-b)$

$a^2 - ab + ab - b^2$

$a^2 - b^2$

DOS

Review: EXPONENT RULES

MR $a^m \cdot a^n = a^{m+n}$

DR $\frac{a^m}{a^n} = a^{m-n}$

→ ZER $a^0 = 1$

ex: $0^0 = 0$

→ NER $a^{-m} = \frac{1}{a^m}$

or $\frac{1}{a^{-m}} = a^m$

PPR $(a^m)^n = a^{m \cdot n}$

GRP $\left(\frac{ab}{cd}\right)^m = \frac{a^m b^m}{c^m d^m}$

FER $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

$(-2)^3 = -8$

$-2^4 = -16$

$(-2)^4 = +16$

$(-2)^0 = 1$

$-(2)^0 = -1$

$-2^0 = -1$

① $\dfrac{(-2N^2 \cdot 2N^0)^4}{-2N^{-4}}$

$\dfrac{(-2N^2 \cdot 2)^4}{-2N^{-4}}$

$\dfrac{(-4N^2)^4}{-2N^{-4}}$

$\dfrac{+256N^8 N^4}{-2}$

$-128N^{12}$

Step-by-Step

Mr C