Name: _____ Date: _____

Teacher: A. Zito Math 48N (Kuta-Math Infinite Algebra)

Polynomial Long Division

① $m-7 \overline{)m^3 - 6m^2 - 16m + 63}$

② $v+8 \overline{)v^3 - 2v^2 - 78v + 16}$

③ $k-8 \overline{)k^3 - 3k^2 - 31k - 72}$

④ $x-5 \overline{)x^3 - 8x^2 + 25x - 50}$

⑤ $x-9 \overline{)-9x^3 + 86x^2 - 46x + 9}$

⑥ $n+8 \overline{)n^3 + 8n^2}$

⑦ $x-1 \overline{)x^3 + 3x^2 + 5x - 9}$

⑧ $x+7 \overline{)x^3 + x^2 - 39x + 21}$

⑨ $x+5 \overline{)x^4 + 3x^3 - 11x^2 - 9x - 20}$

⑩ $x+2 \overline{)7x^3 + 12x^2 - 10x - 12}$

⑪ $x+1 \overline{)x^3 + 6x^2 + 11x + 16}$

⑫ $x-3 \overline{)x^3 - 11x^2 + 31x - 17}$

13. $x-2 \overline{)x^3+2x^2+x-13}$

14. $x-7 \overline{)x^3-2x^2-32x-17}$

15. $x+5 \overline{)x^3-4x^2-41x+24}$

16. $x+10 \overline{)x^3+11x^2+7x-37}$

17. $x+2 \overline{)x^5+5x^4+9x^3+11x^2+12x+13}$

(18) $x+1 \overline{\smash{\big)}\ x^3 + x + 2}$

(19) $x-6 \overline{\smash{\big)}\ 4x^3 - 10x^2 - 504}$

(20) $x+2 \overline{\smash{\big)}\ 2x^3 - 3x + 10}$

(21) $x-4 \overline{\smash{\big)}\ 5x^3 - x^2 - 304}$

(22) $x-3 \overline{\smash{\big)}\ x^3 - 12x^2 + 81}$

(23) $x^2-5 \overline{\smash{\big)}\ x^3 - 5x}$