

ALG 2

CH 6 / Unit 5

POLYNOMIALS

FACTOR EACH OF THE FOLLOWING EQUATIONS COMPLETELY. WHEN $a \neq 1$, USE GROUPING BOX METHOD OR FRACTIONS METHOD. SHOW ALL WORK ON SEPARATE SHEET OF PAPER. FACTOR GCF OUT (ST)

① $y = 2x^3 - 2x^2 - 40x$

② $y = -x^4 + x^3 + 56x^2$

③ $y = 4x^3 - 36x$

④ $y = 9x^5 + 6x^4 + x^3$

⑤ $y = -x^3 + 3x^2 + 18x$

⑥ $f(x) = 3x^4 - 16x^3 + 5x^2$

⑦ $f(x) = -2x^3 + 19x^2 - 24x$

⑧ $d(x) = x^5 - 5x^4 - 14x^3$

⑨ $f(x) = 2x^3 - 6x^2 - 80x$

⑩ $f(x) = -x^6 + 7x^5 + 44x^4$

REFER BACK TO YOUR NOTES FROM WEDNESDAY, FEBRUARY 13th IF NEEDED.