Algebra 2 Name_____

HW #5: Polynomial Long Division

Divide using long division.

1) $(24a^2 + 6a - 9) \div (6a - 3)$

2) $(5x^4 + 19x^3 - 49x^2 + 14x - 1) \div (5x - 1)$

3) $(6a^3 + 34a^2 + 24a - 12) \div (6a - 2)$

4) $(9p^4 - 46p^3 + 50p^2 - 5p) \div (9p - 1)$

5) $(3k^4 - 9k^3 + 18k - 54) \div (3k - 9)$

6) $(72n^4 - 82n^3 + 79n^2 - 128n + 64) \div (9n - 8)$

7) $(90x^2 - 190x + 92) \div (10x - 10)$

8) $(27m^4 - 24m^3 + 18m - 12) \div (9m - 8)$

9) $(10x^3 - 7x^2 + 1) \div (10x - 7)$

10) $(40x^3 + 18x^2 - 43x - 3) \div (5x + 1)$