

Name: _____ is Confident! 😊

Math 115 Spring 2026
Mr. Sahney

Standard 6 Practice

1. Multiply and Simplify:

a. $5x^4(2x^3 - 6x^2 + 7)$

b. $(x + 7)(x + 4)$

c. $(4x - 3)^2$

d. $(2x + 3)(x - 8)$

e. $(x - 4)(x^2 + 5x - 2)$

2. Divide and Simplify:

a. $\frac{24x^8 - 12x^7 + 18x^5}{6x^4}$

b. $\frac{15x^8 - 20x^6 + 10x^5}{-5x^5}$

3. Use long division to divide: $\frac{x^2 + 2x + 18}{x + 5}$

4. Use long division to divide: $\frac{x^4 + 3x^2 + 6x - 10}{x + 2}$

5. Use long division to divide: $\frac{x^3 + 8x - 24}{x - 2}$

