Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Alg2R – Unit 2 Lesson 4 HW VISCA

1. Multiply and combine like terms.
	1. $(x^{2}-4x+4)(x+3)$ b. $\left(11-15x-7x^{2}\right)\left(25-16x^{2}\right)$

 $c. \left(11-15x-7x^{2}\right)\left(25-16x^{2}\right)$ d. $(x^{2}-3x+9)(x^{2}+3x+9$)

1. Divide
	1. $\left(2x^{3}+x^{2}-16x+15\right)÷\left(2x-3\right)$ b. $\left(3x^{5}+12x^{4}+11x^{3}+2x^{2}-4x-2\right)÷\left(3x^{2}-1\right)$

c. ${\left(x^{2}+3x-5\right)}/{(x^{4}+4x^{3}+x-1)}$ d. $\frac{2x^{3}-3x^{2}-5x-12}{x-3}$

e) ${x-4}/{3x^{2}-2x^{2}-150}$

1. Let f(x) = x + 1, let v(x) = x4 + 2x3 + 2x2 + 2x + 1, is f(x) a factor of v(x)? Justify and explain.