

H. Algebra II Review KEY

Pt. 4 - Polynomials

$$4a1 \quad f(x) = -x^3 - 4x^2 - x + 6$$

$$4a2 \quad f(x) = x^4 - 5x^2 + 4$$

$$4a3 \quad f(x) = -x^4 + 10x^3 - 26x^2$$

$$4a4 \quad f(x) = x + 1$$

$$4b1 \quad 9x^3 - 18x^2 + 35x - 27 + \frac{-3}{x-1}$$

$$4b2 \quad 9x^2 - 18x + 8$$

$$4b3 \quad 2x^2 + 3$$

$$4b4 \quad 3x - 1 + \frac{5x - 2}{2x^2 - x + 3}$$

$$4c1 \quad x = -5, 0, 5$$

$$4c2 \quad x = -1, \frac{7}{3}$$

$$4c3 \quad x = 6, \frac{1}{2}i, \frac{1}{2}i$$

$$4c4 \quad x = \frac{1}{2}, 2, -3i, 3i$$