

Unit 3

① A) $(4y-5)(16y^2+20y+25)$

B) $2(2x+3)(4x^2-6x+9)$

C) $(x^2+3y)(x^4-3x^2y+9y^2)$

② See Mrs. Mitchell for help

③ a) ∞

b) $-\infty$

④ $\pm 1, \pm \frac{1}{2}, \pm 2, \pm 4, \pm 8$

⑤ $x = -\frac{1}{2}, 5, -6$

⑥ $y = 4x^3 - x - 30$

⑦ $y = x^3 - 4x^2 - 6x + 24$

⑧ $y = x^3 - 13x^2 + 57x - 85$

⑨ See Mrs. Mitchell for help