

Quiz 3

$$1. \quad x^3 + x^2 - 9x - 9 = x^2(x+1) - 9(x+1) = \\ (x^2 - 9)(x+1) = (x-3)(x+3)(x+1)$$

$$2. \quad x^2 - 2x - 8 = (x-4)(x+2)$$

$$3. \quad -3x^2 + 12 = -3(x^2 - 4) = \\ -3(x-2)(x+2)$$

$$4. \quad x^4 - 25x^2 = x^2(x^2 - 25) = \\ x^2(x-5)(x+5)$$