

Section 2.3 & 2.4 Make-up Quiz WS

Date _____ Period _____

Find all roots and their multiplicities.

1) $x(x-3)(x+5) = 0$

2) $(x-1)(x+1)(x-2)(x+2)(x^2+4) = 0$

3) $x(x-5)(x^2-2) = 0$

4) $(x+1)(x^2+4) = 0$

5) $x^2(x+3)(x^2-3) = 0$

6) $x(x-4)(x^2-5) = 0$

7) $(x+4)(x^2-3) = 0$

8) $(x+2)(x^2+2) = 0$

9) $(x-3)(3x^2-2) = 0$

10) $(4x-1)(x^2+1) = 0$

$$11) (x - 1)(5x^2 - 4) = 0$$

$$12) (x^2 - 2)(3x^2 - 5)(3x^2 + 5) = 0$$

$$13) f(x) = 3x^3 + 13x^2 + 13x + 3$$

$$14) f(x) = 5x^4 - 22x^2 - 15$$

$$15) f(x) = x^3 - 8$$

$$16) f(x) = 4x^3 - 3x - 1$$

$$17) f(x) = 3x^4 + 5x^2 - 8$$

$$18) f(x) = 5x^4 - 13x^2 + 8$$

$$19) x^5 + 4x^4 - 5x^3 - 20x^2 = 0$$

$$20) x^5 + 3x^3 - 28x = 0$$