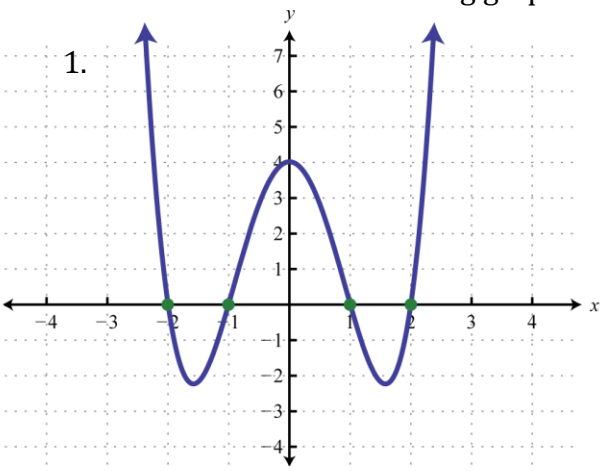
HW 10-1
Secondary Math 3 Lite

Name: _____
Date: _____ Class: _____

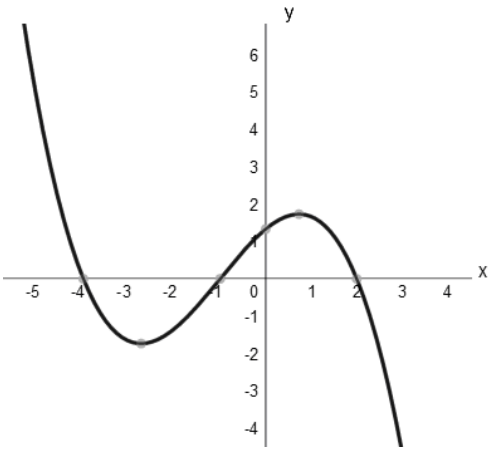
State the zeros from the following graphs

1.



Zeros:

2.



Zeros:

Determine if the given value is a zero of the function using synthetic division

3. $x = -2,\ f(x) = x^3 + 2x^2 - x - 2$

4. $x = -2,\ f(x) = 2x^4 + 6x^3 - 5x - 10$

5. $x = 3,\ f(x) = 4x^3 - 12x^2 + 2x - 5$

6. $x = 8,\ f(x) = x^3 - 22x^2 + 157x - 360$

Given one zero, find all other zeros by doing synthetic division and then factoring

7. $x = -2,\ f(x) = x^3 - x^2 - 10x - 8$

8. $x = 5,\ f(x) = x^3 - 9x^2 + 23x - 15$

9. $x = 3,\ f(x) = x^3 - 7x^2 + 7x + 15$

10. $x = -1,\ f(x) = x^3 + 3x^2 - 6x - 8$