

## Math-1050 (zeroes of poly's using synthetic division)

- a) Find the number of positive zeroes.
- b) Find the number of negative zeroes.
- c) List the possible zeroes.
- d) Find the zeroes.

1)  $f(x) = 3x^3 + 7x^2 + 5x + 1$

2)  $f(x) = 2x^3 + 7x^2 + 7x + 2$

3)  $f(x) = 5x^3 + 9x^2 + 3x - 1$

4)  $f(x) = 5x^3 - 19x^2 - 29x - 5$

5)  $f(x) = 2x^3 + 5x^2 + 4x + 1$

6)  $f(x) = 3x^3 + 5x^2 + x - 1$

7)  $x^3 - 64 = 0$

8)  $x^3 + 125 = 0$