Monday 11/13

Find the zeros of the following polynomial algebraically then check your answer by graphing

A) $f(x) = 2x^3 + 3x^2 - 2x$

B) $x^2 - 16 = 0$

a) $f(x) = 2x^3 + 3x^2 - 2x$

GCF $x \cdot (2x^2 + 3x - 2)$

$x \cdot (2x - 1)(x + 2) = 0$

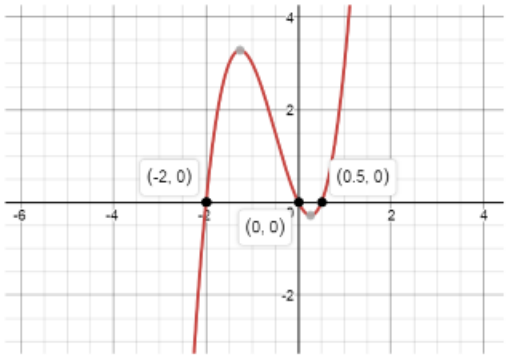
$x = 0, \; x = \frac{1}{2}, \; x = -2$

X-method

-4, -1, 4, 3

$(x + \frac{4}{2})(x - \frac{1}{2})$

$(x+2)(2x-1)$



$x^2 - 16 = 0$

$(x-4)(x+4) = 0$ (special case $a^2 - b^2 = (a-b)(a+b)$)

$x = 4$ or $x = -4$