

Starter

solve

$$x^3 + 2x^2 - 4x = x + 6$$

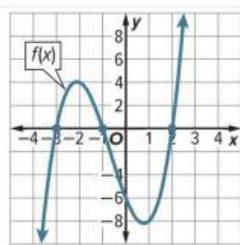
The values of x for which $f(x) = 0$ are the real zeros of the function and the x -intercepts of its graph
zeros are $\{-3, -1, 2\}$

replace 0 with $f(x)$
 $f(x) = x^3 + 2x^2 - 5x - 6$

graph the function $f(x)$
 $f(x) = x^3 + 2x^2 - 5x - 6$

simplify
 $x^3 + 2x^2 - 5x - 6 = 0$

make the equation = 0
 $x^3 + 2x^2 - 4x - x - 6 = 0$



1.
2.
3.
4.
5.