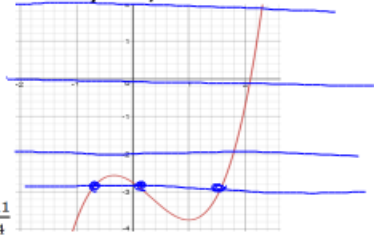


Bell Work Wednesday 09/12



The function $f(x) = x^3 - x^2 - x - \frac{11}{4}$ is graphed in the xy -plane. If k is a constant such that the function $f(x)=k$ has three real solutions, which of the following could be the value of k ?

- A. 2
- B. 0
- C. -2
- D. -3

H0Y

Handwritten notes and diagrams:

- $f(x) = k$ (written in pink)
- $y = k$ (written in blue)
- Intersection (written in pink, with an arrow pointing to the intersection of the curve and a horizontal line)
- H. line (written in pink, with an arrow pointing to the horizontal line)
- Horizontal lines (written in blue, with a bracket grouping the following lines):
 - $y = 2$
 - $y = 0$
 - $y = -2$
 - $y = -3$