Graphing Calculators

Graph the function: $f\left(x\right)=-x^{3}-4x^{2}-x+1$ in Y1

1. View graph in the standard window: ZOOM 🡪 6
2. Change window by pressing WINDOW if needed.

|  |  |
| --- | --- |
| Xmin |  |
| Xmax |  |
| Xscl |  |
| Ymin |  |
| Ymax |  |
| Yscl |  |

1. Find the y-intercept. TRACE 🡪 0 🡪 ENTER
2. Find $f\left(-2\right).$ TRACE 🡪2🡪ENTER
3. Find x-intercepts. 2ND 🡪 TRACE 🡪 zero (2) 🡪Enter left 🡪Enter Right 🡪Enter
4. Find Minimum. 2ND 🡪 TRACE 🡪 minimum (3) 🡪Enter left 🡪Enter Right 🡪Enter
5. Find Maximum. 2ND 🡪 TRACE 🡪 maximum (4) 🡪Enter left 🡪Enter Right 🡪Enter
6. Find $f\left(x\right)=2.$ Need to graph new line Y2=2.
 Then 2ND 🡪TRACE🡪intersect🡪Enter🡪Enter🡪Enter