MAT 1375, Classwork3, Fall2024

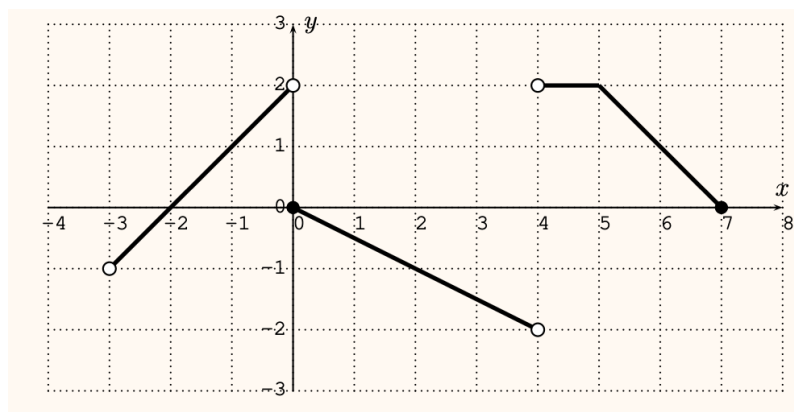1. Let f be the function given by the following graph.
   (a) What is the domain of f?
   (b) What is the range of f?
   (c) For which x is $f(x) < 0$?
   (d) Find $f(0) + 5$.
   (e) Find $f(0 + 5)$.

2. Given a function $f(x) = x^4 + 2x^3 - 3x^2 - 4x + 3$ by the following graph.
   Find all intercepts and all extrema.