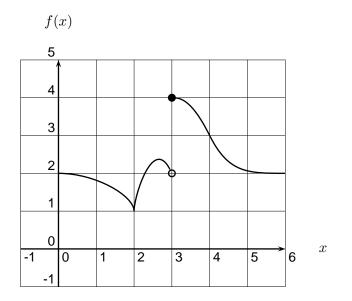
9. A function *f* is defined on the interval [0, 6]. The graph of y = f(x) is shown below.



- (a) (2 points) On which intervals does it appear that f is continuous?
- (b) (3 points) On which intervals does it appear that f is differentiable?
- (c) (3 points) Does  $\lim_{x\to 3} f(x)$  exist? If so, estimate it; if not, explain why.
- (d) (4 points) Estimate f'(4) and find an equation of the tangent line to the graph of f at x = 4.