Section 2.8

2.We can estimate each derivative of x by drawing its slope. so they are about f'(0) = -2, f'(1) = 0, f'(2) = 1, f'(3) = 1, f'(4) = 0, f'(5) = -2 and the derivative satisfies the function $f'(x) = -\frac{1}{2}x^2 + \frac{5}{2}x - 2$ **3.**(a) II (b) IV (c) I (d) III . **35.**At x = -4, it's a corner and discontinuous at x = 0**37.**At x = -1 there is a vertical tangent and it's a corner at x = 4**41.**a = f, b = f', c = f''