Chapter 2

Applications of Differentiation

Exercise Set 2.1

f(x)=x²+4x+5

First, find the critical points.

$$f''(x) = 2x + 4$$

f'(x) exists for all real numbers. We solve

$$f''(x) = 0$$

$$2x + 4 = 0$$

$$2s = -4$$

$$x = -2$$

The only critical value is -2. We use -2 to divide the real number line into two intervals, A: $(-\infty, -2)$ and B: $(-2, \infty)$:



We use a test value in each interval to determine the sign of the derivative in each interval.

A: Test
$$-3$$
, $f'(-3) = 2(-3) + 4 = -2 < 0$

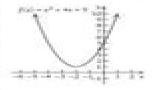
B: Test 0.
$$f'(0) = 2(0) + 4 = 4 > 0$$

We see that f(x) is decreasing on $(-\infty, -2)$ and increasing on (-2, -1), and the change from decreasing to increasing indicates that a relative minimum occurs at x = -2. We substitute into the original equation to find f(-2):

$$f(-2) = (-2)^2 + 4(-2) + 5 = 1$$

Thus, there is a relative minimum at (-2.1). We use the information obtained to sketch the graph. Other function values are listed below.

| -11 | f(x) |
|-----|------|
| -5 | 10 |
| | - 5 |
| -3 | 2 |
| -2 | |
| -1 | 2 |
| (0) | 5 |
| 1 | 10 |



2. $f(x) = x^2 + 6x - 3$

$$f'(x) = 2x = 6$$

f'(x) exists for all real numbers. Solve

$$f''(x) = 0$$

$$2x + 6 = 0$$

$$2x = -6$$

$$x = -3$$

The only critical value is -3. We use -3 to divide the real number line into two intervals,

A: Test
$$-4$$
, $f'(-4) = 2(-4) + 6 = -2 < 0$

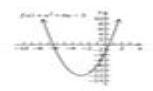
We see that f(x) is decreasing on $(-\infty, -3)$ and increasing on (-3, -), there is a relative minimum at x = -3.

$$f(-3) = (-3)^2 + 6(-3) - 3 = -12$$

Thus, there is a relative minimum at (-3,-12).

We sketch the graph.

| | f'(x) |
|-----|-------|
| -6 | -3 |
| -5 | -8 |
| -4 | |
| -3 | -12 |
| -2 | -11 |
| -1 | -8 |
| - 0 | -3 |



3. $f(x) = 5 - x - x^2$

First, find the critical points.

$$f''(x) = -1 - 2x$$

f'(x) exists for all real numbers. We solve

$$f^{\alpha}(x) = 0$$

$$-1 - 2x = 0$$

$$-2x = 1$$

$$v = -\frac{1}{2}$$

The solution is continued on the nest page.

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