

Chapter 2

Applications of Differentiation

Exercise Set 2.1

1. $f(x) = x^2 + 4x + 5$

First, find the critical points.

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

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

$$f'(x) = 0$$

$$2x + 4 = 0$$

$$2x = -4$$

$$x = -2$$

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 $(-2, \infty)$, 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.

x	$f(x)$
-5	10
-4	5
-3	2
-2	1
-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: $(-\infty, -3)$ and B: $(-3, \infty)$.

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

B: Test 0 , $f'(0) = 2(0) + 6 = 6 > 0$

We see that $f(x)$ is decreasing on $(-\infty, -3)$ and increasing on $(-3, \infty)$, 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.

x	$f(x)$
-6	-3
-5	-8
-4	-11
-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

$$f'(x) = 0$$

$$-1 - 2x = 0$$

$$-2x = 1$$

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

The solution is continued on the next page.

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