# AP Calculus AB/BC Exams

## Regularly Scheduled Exam Date: Tuesday morning, May 5, 2020

## Late-Testing Exam Date: Friday morning, May 22, 2020

### Section I

<table>
<thead>
<tr>
<th>Total Time: 1 hour and 45 minutes</th>
<th>Part A:</th>
<th>Time: 1 hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Questions: 45</td>
<td>Number of Questions: 30</td>
<td>No calculator allowed</td>
</tr>
<tr>
<td><em>(The number of questions may vary slightly depending on the form of the exam.)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percent of Total Score: 50%</td>
<td>Part B:</td>
<td>Time: 45 minutes</td>
</tr>
<tr>
<td>Writing Instrument: Pencil required</td>
<td>Number of Questions: 15</td>
<td>Graphing calculator required</td>
</tr>
</tbody>
</table>

### Section II

<table>
<thead>
<tr>
<th>Total Time: 1 hour and 30 minutes</th>
<th>Part A:</th>
<th>Time: 30 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Questions: 6</td>
<td>Number of Questions: 2</td>
<td>Percent of Section II Score: 33.33%</td>
</tr>
<tr>
<td>Percent of Total Score: 50%</td>
<td></td>
<td>Graphing calculator required</td>
</tr>
<tr>
<td>Writing Instrument: Either pencil or pen with black or dark blue ink</td>
<td>Part B:</td>
<td>Time: 1 hour</td>
</tr>
<tr>
<td>Note: For Section II, if students finish Part A before the end of the timed 30 minutes for Part A, they cannot begin working on Part B. Students must wait until the beginning of the timed 1 hour for Part B. However, during the timed portion for Part B, students may work on the questions in Part A without the use of a calculator.</td>
<td>Number of Questions: 4</td>
<td>Percent of Section II Score: 66.67%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No calculator allowed</td>
</tr>
</tbody>
</table>


### Before Distributing Exams

- Check that the title on all exam covers is *Calculus AB* or *Calculus BC*. Be sure to distribute the correct exam—AB or BC—to the students. If there are any exam booklets with a different title, contact the AP coordinator immediately.

## What Proctors Need to Bring to This Exam

- Exam packets
- Answer sheets
- The personalized AP ID label sheet for each student taking the exam
- Part 2 of the 2019-20 AP Coordinator’s Manual
- This book—2019-20 AP Exam Instructions
- AP Exam Seating Chart template
- Extra graphing calculators
- Pencil sharpener
- Container for students’ electronic devices (if needed)
- Extra No. 2 pencils with erasers
- Extra pens with black or dark blue ink
- Extra paper
- Stapler
- Watch
- Signs for the door to the testing room
  - “Exam in Progress”
  - “Phones of any kind are prohibited during the test administration, including breaks”
Seating Policy for AP Calculus AB and AP Calculus BC Exams

NEW: There are updates to the seating policy for AP Calculus AB and Calculus BC Exams for the 2020 AP Exam administration. Review the table below, and see pages 11–12 in this AP Exam Instructions book (or pages 58–59 in Part 2 of the 2019-20 AP Coordinator’s Manual) for details about the updated seating policy for these exams.

<table>
<thead>
<tr>
<th>Testing Window</th>
<th>Exams Administered at Schools in the United States and parts of Canada*</th>
<th>Exams Administered at Schools in All Other Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regularly Scheduled Exams</td>
<td>Students must be seated no less than 4 feet apart.</td>
<td>Students must be seated no less than 5 feet apart.</td>
</tr>
<tr>
<td>Late-Testing Exams</td>
<td>Students must be seated no less than 5 feet apart.</td>
<td></td>
</tr>
</tbody>
</table>

* In Canada, applies only to schools in Alberta, British Columbia, Manitoba, Northwest Territories, Nunavut, Ontario, Quebec, Saskatchewan, and Yukon.

Calculator Use

Graphing calculators are required to answer some of the questions on the AP Calculus Exams. Before starting the exam administration, make sure each student has a graphing calculator from the approved list on page 55 of Part 2 of the 2019-20 AP Coordinator’s Manual. If a student does not have a graphing calculator from the approved list, you may provide one from your supply. If the student does not want to use the calculator you provide or does not want to use a calculator at all, they must hand copy, date, and sign the release statement on page 54 of Part 2 of the 2019-20 AP Coordinator’s Manual.

During the administration of Section I, Part B, and Section II, Part A, students may have no more than two graphing calculators on their desks. Calculators may not be shared. Calculator memories do not need to be cleared before or after the exam. Students with Hewlett-Packard 48–50 Series and Casio FX-9860 graphing calculators may use cards designed for use with these calculators. Proctors should make sure infrared ports (Hewlett-Packard) are not facing each other. Since graphing calculators can be used to store data, including text, proctors should monitor that students are using their calculators appropriately. Attempts by students to use the calculator to remove exam questions and/or answers from the room may result in the cancellation of AP Exam scores.

Testing Rooms

The AP Calculus AB Exam and the AP Calculus BC Exam should be administered simultaneously. They may be administered in separate rooms, or in the same room if it is more convenient.

SECTION I: Multiple Choice

Do not begin the exam instructions below until you have completed the General Instructions.

Before starting the exam administration, make sure each student has an appropriate calculator for the exam. See details in the section above. Calculators are not permitted on Section I: Part A.

These exams include survey questions. The time allowed for the survey questions is in addition to the actual test-taking time.

Make sure you administer the exams on the scheduled date and begin the exams at the designated time. Remember, you must complete a seating chart for this exam. See pages 286–287 for a seating chart template and instructions. See Part 2 of the 2019-20 AP Coordinator’s Manual for exam seating requirements (pages 57–60).
If you are giving the regularly scheduled exam, say:
It is Tuesday morning, May 5, and you will be taking either the AP Calculus AB Exam or the AP Calculus BC Exam.

If you are giving the alternate exam for late testing, say:
It is Friday morning, May 22, and you will be taking either the AP Calculus AB Exam or the AP Calculus BC Exam.

If you are giving the AP Calculus AB Exam, say:
Look at your exam packet and confirm that the exam title is “AP Calculus AB.” Raise your hand if your exam packet contains any other exam title and I will help you.

If you are giving the AP Calculus BC Exam, say:
Look at your exam packet and confirm that the exam title is “AP Calculus BC.” Raise your hand if your exam packet contains any other exam title and I will help you.

If you are giving both the AP Calculus AB Exam and AP Calculus BC Exam in the same room, say:
Look at your exam packet and confirm that the exam title is “AP Calculus AB” or “AP Calculus BC,” depending upon which exam you are taking today. Raise your hand if your exam packet contains any other exam title, and I will help you.

Once you confirm that all students have the correct exam, say:
In a moment, you will open the exam packet. By opening this packet, you agree to all of the AP Program’s policies and procedures outlined in the 2019-20 Bulletin for AP Students and Parents.

You may now remove the shrinkwrap from the outside only of your exam packet. Do not open the Section I booklet; do not remove the shrinkwrap from the Section II materials. Put the white seals and the shrinkwrapped Section II booklet aside. . . .

Carefully remove the AP Exam label found near the top left of your exam booklet cover. Place it on your answer sheet on the light blue box near the bottom that reads “AP Exam Label.” . . .

If students accidentally place the exam label in the space for the AP ID label or vice versa, advise them to leave the labels in place. They should not try to remove the label; their exam can still be processed correctly.

Listen carefully to all my instructions. I will give you time to complete each step. Please look up after completing each step. Raise your hand if you have any questions.

Give students enough time to complete each step. Don’t move on until all students are ready.

Read the statements on the front cover of the Section I booklet. . . .
Sign your name and write today’s date. . . .
Now print your full legal name where indicated. . . .
Does anyone have any questions? . . .
Turn to the back cover of your exam booklet and read it completely. . . .

Give students a few minutes to read the entire back cover.

Are there any questions? . . .
You will now take the multiple-choice portion of the exam. You should have in front of you the multiple-choice booklet and your answer sheet. You may never discuss the multiple-choice exam content at any time in any form with anyone, including your teacher and other students. If you disclose the multiple-choice exam content through any means, your AP Exam score will be canceled.

Now turn your answer sheet over to the side marked page 2. You must complete the answer sheet using a No. 2 pencil only. Mark all of your responses on page 2 of your answer sheet, one response per question. The answer sheet has circles marked A–E for each question. For Calculus [AB/BC], you will use only the circles marked A–D. Completely fill in the circles. If you need to erase, do so carefully and completely. No credit will be given for anything written in the exam booklet. Scratch paper is not allowed, but you may use the margins or any blank space in the exam booklet for scratch work.

Your score on the multiple-choice section will be based solely on the number of questions answered correctly.

Section I is divided into two parts. Each part is timed separately, and you may work on each part only during the time allotted for it. Calculators are not allowed in Part A. Please put your calculators under your chair.

Are there any questions? . . .

You have one hour for Part A. Part A questions are numbered 1 through 30. Mark your responses for these questions on your answer sheet. Do not go on to Part B until instructed to do so. Once final time is called for Part A, you will need to stop working immediately.

Open your Section I booklet and begin.

Note Start Time ______________. Note Stop Time ______________.

Check that students are marking their answers in pencil on their answer sheets and that they are not looking beyond Part A. The line of A's at the top of each page will assist you in monitoring students' work. Make sure they’ve placed their AP ID label sheets under their chairs.

After 50 minutes, say:

There are 10 minutes remaining.

After 10 minutes, say:

Stop working on Part A and turn to page 24 in your Section I booklet. . . .

On that page, you should see an area marked “PLACE SEAL HERE.” Making sure all of your other exam materials, including your answer sheet, are out of the way, take one of your seals and press it on that area and then fold the seal over the open edge to the front cover. Be sure you don’t seal the Part B section of the booklet or let the seal touch anything except the marked areas. . . .

After all students have sealed Part A, say:

Graphing calculators are required for Part B. You may get your calculators from under your chair and place them on your desk. Part B questions are numbered 76 through 90. You have 45 minutes for Part B. Once final time is called for Part B, you will need to stop working immediately. You may begin.

Note Start Time ______________. Note Stop Time ______________.

Check that students have sealed their booklets properly and are now working on Part B. The large B’s in an alternating shaded pattern at the top of each page will assist you in monitoring their work. Make sure that students are using their calculators appropriately.
You should also make sure Hewlett-Packard calculators’ infrared ports are not facing each other and that students are not sharing calculators.

**After 35 minutes, say:**

> There are 10 minutes remaining.

**After 10 minutes, say:**

> Stop working and turn to page 38. You have 3 minutes to answer Questions 91 through 94. These are survey questions and will not affect your score. Note that each survey question has five answer options (A through E). You may not go back to work on any of the exam questions.

Give students approximately 3 minutes to answer the survey questions.

**Then say:**

> Close your exam booklet and put your answer sheet faceup on your desk. Make sure your AP ID label and AP Exam label are on your answer sheet. Sit quietly while I collect your answer sheets.

Collect an answer sheet from each student. Check that each answer sheet has an AP ID label and an AP Exam label.

**After all answer sheets have been collected, say:**

> Now you must seal your Section I booklet. Remove the remaining white seals from the backing and press one on each area of your exam booklet cover marked “PLACE SEAL HERE.” Fold each seal over the back cover. When you have finished, place the booklet faceup on your desk. I will now collect your Section I booklet.

Collect a Section I booklet from each student. Check that each student has signed the front cover of the sealed Section I booklet.

There is a 10-minute break between Sections I and II.

**When all Section I materials have been collected and accounted for and you are ready for the break, say:**

> Please listen carefully to these instructions before we take a 10-minute break. Get your AP ID label sheet from under your chair and put it on your desk. You must leave your shrinkwrapped Section II packet and your AP ID label sheet on your desk during the break. All items you placed under your chair at the beginning of this exam must stay there. You are not permitted to open or access them in any way. You are not allowed to consult teachers, other students, notes, textbooks, or any other resources during the break. You may not make phone calls, send text messages, use your calculators, check email, use a social networking site, or access any electronic or communication device. You may not leave the designated break area. Remember, you may never discuss the multiple-choice exam content with anyone, and if you disclose the content through any means, your AP Exam score will be canceled. Are there any questions?

> You may begin your break. Testing will resume at _____________.

Make sure students understand where the designated break area is.

**IMPORTANT:** Both the exam room and students in the designated break area must be monitored.

At the start of the break, walk around the room to ensure all Section II books are accounted for on students’ desks. Immediately contact the Office of Testing Integrity (OTI) if any book is missing. Testing must not resume until the book is located or OTI is contacted. (See contact information for OTI on the inside front cover.)
SECTION II: Free Response

After the break, say:

May I have everyone’s attention? Please look at your AP ID label sheet and double-check that your name is printed at the top to ensure you’ve returned to the correct seat. . . .

Confirm that students have their AP ID label sheet, then say:

For this section of the exam you will use a pen with black or dark blue ink or a No. 2 pencil to write your responses. Does everyone have a pen or pencil? . . .

You may now remove the shrinkwrap from the Section II packet, but do not open the Section II exam booklet until you are told to do so. . . .

Read the bulleted statements on the front cover of the exam booklet. Look up when you have finished. . . .

Now take an AP ID label from your label sheet and place it on the shaded box marked "Place AP ID Label Here." If you don’t have any AP ID labels, write your AP ID in the box. Look up when you have finished. . . .

Read the last statement. . . .

Using your pen, print the first, middle, and last initials of your legal name in the boxes and print today’s date where indicated. This constitutes your signature and your agreement to the statements on the front cover. . . .

Now turn to the back cover and complete Items 1 through 3 under “Important Identification Information.” For Item 3, your school code is printed at the top right of your AP ID label sheet. . . .

Give students time to complete Items 1 through 3.

Read Item 4. . . .

Are there any questions? . . .

Now I will collect your AP ID label sheet. Leave your label sheet on your desk. While I collect them, read the remaining information on the back cover of the exam booklet, paying careful attention to the bulleted statements in the instructions. Do not open the exam booklet or break the seals in the exam booklet until you are told to do so. Look up when you have finished. . . .

At this point, collect the AP ID label sheet from every student.

When you’ve finished collecting AP ID label sheets, say:

Are there any questions? . . .

Section II also has two parts that are timed separately. You are responsible for pacing yourself and may proceed freely from one question to the next within each part. Graphing calculators are required for Part A, so you may keep your calculators on your desk. You must write your answers in the appropriate space in the exam booklet using a pen or pencil. Do not break the seals for Part B at this time. Are there any questions? . . .

You have 30 minutes to answer the questions in Part A. Do not go on to Part B until instructed to do so. Once final time is called for Part A, you will need to stop working immediately.

If you run out of space in your exam booklet, raise your hand.

Are there any questions? . . .
Then say:

Open your Section II booklet and begin.

Note Start Time ____________. Note Stop Time ____________.

Check that students are working on Part A only and writing their answers in their exam booklets using pencils or pens with black or dark blue ink. The pages for the Part A questions are marked with large 1's or 2's at the top of each page to assist you in monitoring their work.

Make sure that students are using their calculators appropriately. You should also make sure that Hewlett-Packard calculators’ infrared ports are not facing each other and that students are not sharing calculators.

If a student runs out of space and raises their hand, give them extra paper and instruct them to write the following on the top of each sheet they use:

- their AP ID
- the exam title, and
- the question number they are working on.

They must not write their name.

After 20 minutes, say:

There are 10 minutes remaining in Part A.

After 10 minutes, say:

Stop working on Part A. Calculators are not allowed for Part B. Please put all of your calculators under your chair. . . .

Turn to page 13. You have one hour for Part B. During this time you may go back to Part A, but you may not use your calculator. Remember to show your work and write your answer to each part of each problem in the appropriate space in the exam booklet. Once final time is called for Part B, you will need to stop working immediately. Are there any questions? . . .

Using your finger, break open the seals on Part B. Do not peel the seals away from the booklet. You may go on to the next page and begin Part B.

Note Start Time ____________. Note Stop Time ____________.

After 50 minutes, say:

There are 10 minutes remaining in Part B.

After 10 minutes, say:

Stop working and close your exam booklet. Place it faceup on your desk. . . .

If any students used extra paper for a question in the free-response section, have those students staple the extra sheet(s) to the first page corresponding to that question in their free-response exam booklets. Complete an Incident Report after the exam and return these free-response booklets with the extra sheets attached in the Incident Report return envelope (see page 281).

Then say:

Remain in your seat, without talking, while the exam materials are collected. . . .

Collect a Section II exam booklet from each student. Check for the following:

- Exam booklet front cover: The student placed an AP ID label on the shaded box and printed their initials and today’s date.
Exam booklet back cover: The student completed the “Important Identification Information” area.

Then say:

Remember, if you need to view your AP ID, you can do so by signing in to “My AP.” Instructions are in the 2019-20 Bulletin for AP Students and Parents. . . .

You can have one AP score report sent for free. If you haven’t already done so, it’s important that you sign in to “My AP” later to indicate the college or university that you’d like to receive your free score report. The deadline to indicate or change your free score report recipient is June 20.

If you are giving the regularly scheduled exam, say:

You may not discuss or share the free-response exam content with anyone unless it is released on the College Board website in about two days. Your AP Exam scores for this year will be available online in July.

If you are giving the alternate exam for late testing, say:

None of the content in this exam may ever be discussed or shared in any way at any time. Your AP Exam scores for this year will be available online in July.

When all exam materials have been collected and accounted for, return to students any electronic devices you may have collected before the start of the exam.

Then say:

You are now dismissed.

After-Exam Tasks

Return the AP ID label sheets to the AP coordinator so the label sheets can be organized for each upcoming exam administration. Keep in mind that the schedule printed on the label sheet may not reflect recent changes to a student’s exam schedule. If you need to confirm a student’s exam schedule, reference the AP coordinator’s master exam list.

Be sure to give the completed seating chart to the AP coordinator. Schools must retain seating charts for at least six months (unless the state or district requires that they be retained for a longer period of time). Schools should not return any seating charts in their exam shipments unless they are required as part of an Incident Report.

NOTE: If you administered exams to students with accommodations, review Part 2 of the 2019-20 AP Coordinator’s Manual and the 2019-20 AP SSD Guidelines for information about completing the Nonstandard Administration Report (NAR) form and returning these exams.

The exam proctor should complete the following tasks if asked to do so by the AP coordinator. Otherwise, the AP coordinator must complete these tasks:

- Complete an Incident Report for any students who used extra paper for the free-response section. (Incident Report forms are provided in the coordinator packets sent with the exam shipments.) These forms must be completed with a No. 2 pencil. It is best to complete a single Incident Report for multiple students per exam subject, per administration (regular or late testing), as long as all required information is provided. Include all exam booklets with extra sheets of paper in an Incident Report return envelope (see page 281).
- Return all exam materials to secure storage until they are shipped back to the AP Program. (See pages 24–25 of Part 2 of the 2019-20 AP Coordinator’s Manual for more information about secure storage.)