## Example Exam

#### **Instructions for Students**

- Read each question carefully before answering.
- Allocate your time wisely based on the points for each question.
- Show all your work for partial credit on computational questions.
- Write legibly and circle your final answers where applicable.
- If you need additional space, use the back of the previous page and clearly indicate this.

This text will only be printed if solutions are not being printed. You might use this environment to print z-tables or formula sheets at the end of the exam.

#### **Basic Questions**

1. Basic question with no parts (4 points in total)
This demonstrates a simple question with a title. It has been assigned 4 points.

2. Basic question with parts

(5 points in total)

This demonstrates a question with parts. Here, we will assign the points to the parts, and LaTeX will then automatically calculate the total number of points for the question. (The same works for subparts and subsubparts!)

- (a) (3 points) This is the first part, worth 3 points.
- (b) (2 points) This is the second part, worth 2 points.

### Including solutions and leaving space for answers

You can include solutions to questions or parts by using the 'solution' environment.

To print the solutions, render the document with the examclass-pdf+solutions format option.

If you include an optional space parameter when you write a solution, LaTeX will automatically leave that amount of blank space after the question when solutions are \*not\* being printed. This is useful if you want to leave space for students to write their answers.

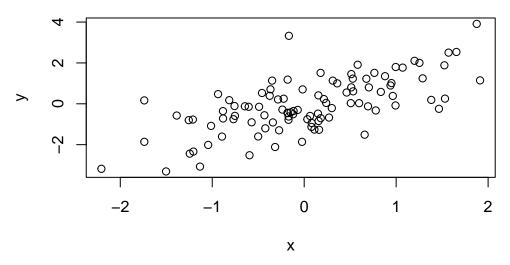
**3.** Question with a solution (2 points in total)

This is a simple question worth 2 points. There are two inches of space after this question when solutions are not being printed.

#### RMarkdown

You can include R code in your exam and solutions.

4. Including R code (3 points in total)



Estimate the mean of x.

#### Math

You can include math in your exam and solutions using LaTeX syntax.

5. Question with math  $c^{\pi}$ 

(3 points in total)

What is the value of  $\int_{\pi/2}^{\pi} \frac{1}{x^2} dx$ ?

### Question parts

**6.** Question with parts and solutions

(5 points in total)

You can add parts to a question using the parts environment. If you assign points to the parts, the total number of points for the question will be calculated automatically.

You can add solutions to the individual parts of a question.

- (a) (2 points) This is the first part.
- (b) (3 points) This is the second part.
- 7. Question with subparts and subsubparts

(12 points in total)

Questions can have subparts and subsubparts.

- (a) (2 points) This is a part without any subparts.
- (b) This is a part with subparts.
  - i. (2 points) This is a subpart.
  - ii. (3 points) This is another subpart.
    - $\alpha$ ) (3 points) This is a subsubpart.
    - $\beta$ ) (2 points) This is another subsubpart.

# Standard Exam Class Question Types

8.	Multiple choice question  We can include multiple choice questions we specified with the \CorrectChoice comm				The corre	ect ans	
	☐ This one						
	$\Box$ That one						
	$\Box$ This correct one						
	$\square$ Another one						
	Additional Question Type Class	pes	included	with	Qua	rto	Exam
	ese question types are defined in the 'exam tically when you render a document using					ır dire	ctory auto-
9.	True/False questions You can easily add true/false questions to whether it is true or false. The correct an				ll give t	he stat	s in total) ement and
					True	False	j.
	This statement should be true This statement should be false						
10.	Multiple choice questions with multiple co You can include multiple choice questions			eckboxes	`	-	s in total)
	$\square$ This is a choice	is is a choice $\Box$ This is yet another					
	$\square$ This is <b>another</b> choice		v				
	Including other files						
	You can include other LaTeX files in your other Quarto files using Quarto's include		0	lard LaTe	X incl	ıde coı	nmand, or
11.	Including files Select all the TRUE statements below.				(5	point	s in total)
					True	False	9
	Files cannot be included in an exam.  Files can be included in an exam using the files can be exampled to the files can be exampled						