Principles of Grading

Be consistent – always use a rubric!

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- Read a few papers before you start

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- Read a few papers before you start
- Grade problem-by-problem

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- Grade without looking at names

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- Discuss common mistakes in class

- Be consistent always use a rubric!
- Read a few papers before you start
- Grade problem-by-problem
- Grade without looking at names
- Write constructive comments
- Discuss common mistakes in class
- Keep backups of your grades (and don't email grades)

Follow the rubric!

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- Forgive tiny mistakes

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- Don't waste time reading illegible work

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- Don't give points for extraneous writing

- Follow the rubric!
- Forgive tiny mistakes
- Don't waste time reading illegible work
- Don't write too many comments
- Don't give points for extraneous writing
- Grade everything in one sitting

2. Does the midpoint rule overestimate or underestimate $\int_1^8 x^2 dx$? Explain. Task

Exam Problem #2				

2. Does the midpoint rule overestimate or underestimate $\int_{1}^{8} x^{2} dx$? Explain.

Criteria

	Exam Problem #2					
Answer						
Explanation						
Organization						

2. Does the midpoint rule overestimate or underestimate $\int_{1}^{8} x^{2} dx$? Explain.

Levels of Performance

Exam Problem #2					
	Excellent	Good	Needs Work	Poor	
Answer					
Explanation					
Organization					

2. Does the midpoint rule overestimate or underestimate $\int_1^8 x^2 dx$? Explain. Descriptions of Levels of

	Exam Problem #2 Performance				
	Excellent	Good	Needs Work	Poor	
Answer	"Underestimate"			"Overestimate" or no answer	
Explanation	Clear and complete mathematical justification	Clear justification, but not complete	Justification lacks clarity or is vague	Justification is completely incorrect or absent	
Organization	Neat, logically organized, and easy to follow		Somewhere in- between	Illegible	

2. Does the midpoint rule overestimate or underestimate $\int_{1}^{8} x^{2} dx$? Explain. Points

	Excellent	Good	Needs Work	Poor
Answer	"onderestimate"			"Cverestimate"
(2 points)	(2 points)			or no answer (0 points)
Explanation	Clear and	Clear	Justification	Justification is
(6 points)	complete mathematical justification (6 points)	justification, but not complete (4 points)	lacks clarity or is vague (2 points)	incorrect or absent (0 points)
Organization	Neat, logically		Somewhere in-	Illegible
Organization	organized, and		between	
(2 points)	easy to follow			
	(2 points)		(1 point)	(0 points)

7=12

The midpoint rune would. Over estinate the integra. 1 x2 dx sara We can see this on the diagram at the left. The area of the rectangles above the live y=x2 1) always greater than to avea enclosed between the live y=x2 and two adj redangles

2. Does the midpoint rule overestimate or underestimate $\int_1^8 x^2 dx$? Explain.

Exam Problem #2					
	Excellent	Good	Needs Work	Poor	
Answer	"Underestimate"			"Overestimate" or no answer	
(2 points)	(2 points)			(0 points)	
Explanation	Clear and complete	Clear justification, but	Justification lacks clarity or is	Justification is completely	
(6 points)	mathematical justification	not complete	vague	incorrect or absent	
	(6 points)	(4 points)	(2 points)	(0 points)	
Organization	Neat, logically organized, and		Somewhere in- between	Illegible	
(2 points)	easy to follow				
	(2 points)		(1 point)	(0 points)	

 $C_{1}=(j-\frac{1}{2})A\times$ $C_{2}=(2-\frac{1}{2})\frac{1}{2}$ $C_{1}=(j-\frac{1}{2})\frac{1}{2}$ $C_{1}=(j-\frac{1}{2})\frac{1}{2}$ $C_{2}=(j-\frac{1}{2})\frac{1}{2}$ $C_{3}=(j-\frac{1}{2})\frac{1}{2}$ $C_{4}=(j-\frac{1}{2})\frac{1}{2}$ $C_{1}=(j-\frac{1}{2})\frac{1}{2}$ $C_{2}=(j-\frac{1}{2})\frac{1}{2}$ $C_{3}=(j-\frac{1}{2})\frac{1}{2}$ $C_{4}=(j-\frac{1}{2})\frac{1}{2}$ $C_{5}=(j-\frac{1}{2})\frac{1}{2}$ $C_{5}=(j-\frac{1}{2})\frac{1}{2}$ $C_{6}=(j-\frac{1}{2})\frac{1}{2}$ $C_{7}=(j-\frac{1}{2})\frac{1}{2}$ $C_{7}=(j-\frac{1}{2})\frac{1}{2}$

This method will be a very close underestimation because the height of the rectangles is the midpoint between two y values, so most of the rectangle will lie beneath the line $y = x^2$, while a smaller portion will lie above the graph.

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(2 points)	easy to follow				
	(2 points)		(1 point)	(0 points)	

6X=1

$$MN = \Delta X \left(\frac{4+1}{a} + \frac{9+4}{2} + \frac{16+9}{2} + \frac{25+16}{a} + \frac{36+25}{a} + \frac{49+36}{a} + \frac{44+36}{2} \right)$$

$$= \left(\frac{5}{2} + \frac{13}{2} + \frac{25}{2} + \frac{41}{2} + \frac{61}{2} + \frac{85}{2} + \frac{113}{2} \right)$$

$$= \left(7.5 + 6.5 + 12.5 + 20.5 + 30.5 + 47.5 + 56.5 \right)$$

$$= \left(9 + 3.3 + 7.3 + 56.5 \right)$$

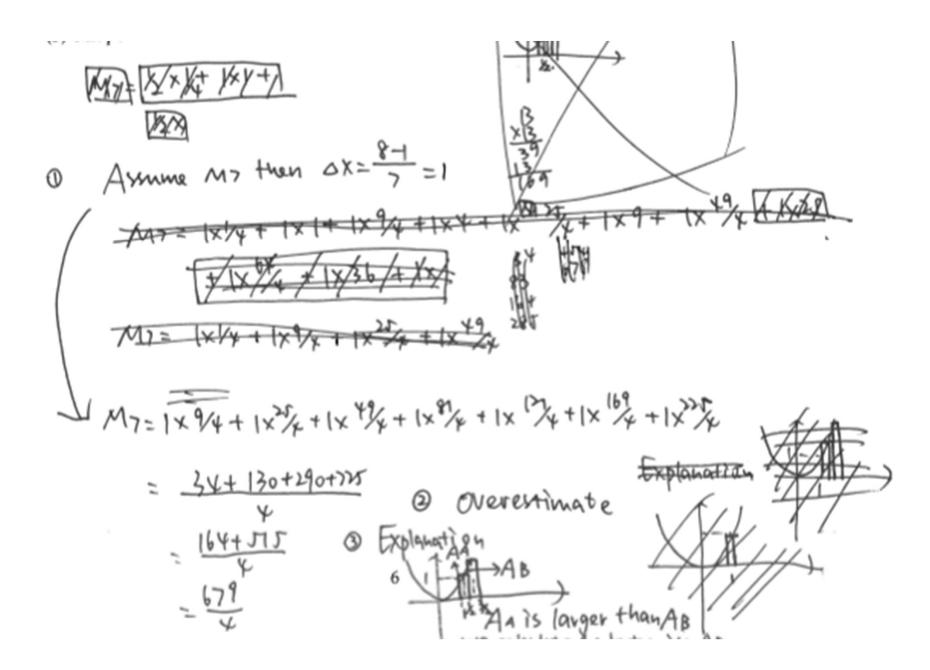
$$= 65.5 + 10.6$$

$$= 1.71.5$$

It's underestimate because midpoint rule takes the average of each of two adjacent points

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(2 points)	easy to follow				
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Your Turn to Make a Rubric!

• Exam grading room: Malott 260

- Exam grading room: Malott
 260
- Do not take exams out of Malott

- Exam grading room: Malott
 260
- Do not take exams out of Malott
- Do not leave exams unattended

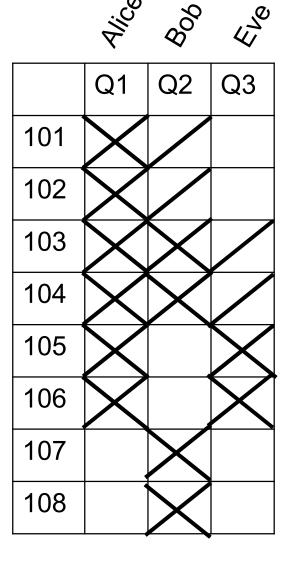
- Exam grading room: Malott
 260
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- Grade exams within 72 hours

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- Only take a few sections at a time to grade

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- Only take a few sections at a time to grade
- Keep backups of your grades

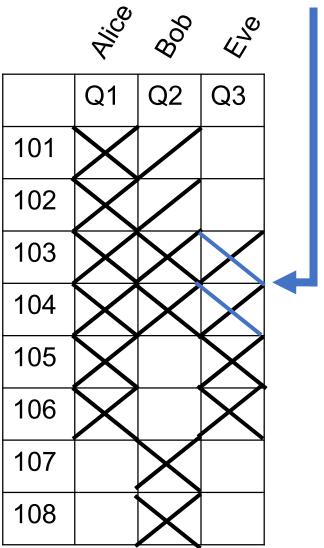
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Returned Exams

- Exam grading room: Malott
 260
- Do not take exams out of Malott
- Do not leave exams unattended
- Grade exams within 72 hours
- Only take a few sections at a time to grade
- Keep backups of your grades
- FERPA



Took Exams

- Exam grading room: Malott
 260
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- Do not leave exams unattended
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- FERPA

