- 1. NO CALCULATORS OR NOTES ALLOWED
- 2. UNLESS STATED OTHERWISE, YOU MUST SIMPLIFY ALL ANSWERS
- 3. SHOW PROPER CALCULUS LEVEL WORK TO JUSTIFY YOUR ANSWERS

A certain economist believes that the rate at which a person's wealth changes is proportional to the difference SCORE: 3 /3 PTS between their country's median wealth and their own wealth. Assuming that median wealth is a constant (W_{MEDIAN}), and that wealthy people (people with a lot of wealth) tend to get wealthier, write a differential equation for the wealth W(t) of a wealthy person at time t. NOTE: The sign of all constants should be stated clearly.

What does the Existence and Uniqueness Theorem tell you about possible solutions to the initial value problem SCORE: ____/4 PTS $(\frac{dy}{dx})^3 + 1 = y$, y(3) = 1? Justify your answer properly, but briefly.

exists to
$$C(3) = 3\sqrt{3} - 1$$
 (3, 1)

Lot $C'(3) = \frac{1}{3}(3-1)^{2/3}$ (3, 1)

Longue C''

We wish a soln. C''

Solve C''

Solve C''

Level exists a soln. C''

Solve C''

Level C''

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Leve

Consider the IVP y' = x(y-1), y(2) = 6. Use Euler's method with h = 0.1 to estimate y(2.2).

SCORE: ____/ 4 PTS

 $y(2.2) \approx 3.42$

$$y'(2) = 2(6-1)$$

$$y(2.1) = 2 + 0.1(10)$$

$$= 2 + 1$$

$$y'(3) = 2.1(2)$$

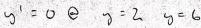
$$= 4.2$$

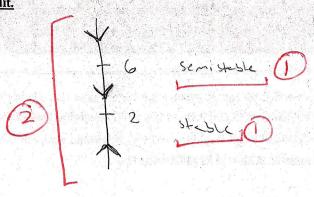
$$y(2.2) = 3 + 0.1(4.2)$$

$$= 3 + 0.42$$

Find all equilibrium solutions of the DE and classify each as stable, unstable or semi-stable. [a]

You must draw a phase portrait to get full credit.





If y = f(x) is a solution of the DE such that f(7) = 1, what is $\lim_{x \to \infty} f(x)$? [b]







If y = g(x) is a solution of the DE such that g(8) = 5, what is $\lim_{x \to a} g(x)$? [c]





Consider the DE $x^2y'' - xy' + y = \sqrt{x}$.

SCORE:

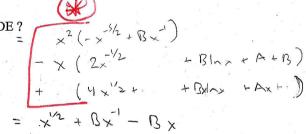
Is $y = 4\sqrt{x} + Ax + Bx \ln x$ a family of solutions of the DE?

$$y' = 2x^{-1/2} + A + B(1nx + \frac{x}{|x|})$$

$$= 2x^{-1/2} + A + B(nx + B)$$

$$y'' = -x^{-3/2} + \frac{B}{|x|}$$

$$3'' = -\frac{3}{2} + \frac{8}{|X|}$$



If the answer to [a] is "YES", solve the IVP consisting of the DE and the initial conditions y(1) = 6, y'(1) = 2. [6] If the answer to [a] is "NO", write "SKIP" and skip this part.

How much of your learning does the instructor believe comes from your daily reading and homework combined? ### 10% ###	MU	LTIPLE CHOICE] Write the letter of the correct answers in the spaces below.
40% 50% 60% 60% 60% 60% 60% 60% 60% 60% 60% 6	INS	WERS: 11 2 2 2 3 2 4 4 5 5 C 6 9
50% 60% 60% 60% 60% 60% 60% 60% 60% 60% 6	11	How much of your learning does the instructor believe comes from your daily reading and homework combined?
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Which statement below regarding attendance is <u>false</u> ?	fj	
	6]	Which statement below regarding attendance is <u>false</u> ?
Whenever you come into class (whether on time or late), you should sign in on the attendance spreadsheet right away.	a]	Whenever you come into class (whether on time or late), you should sign in on the attendance spreadsheet right away.
Arriving late on a quiz or midterm day will not be counted as late.	b]	Arriving late on a quiz or midterm day will not be counted as late.
Unexcused early departures are considered absences.		Unexcused early departures are considered absences.
If you have perfect attendance and classroom behavior for the first 7 weeks, and do not show up again after that, you will receive an F for the course.	d]	
Attendance policies will not apply to you if you score more than 80% on every midterm.	e]	