

Differential Equations: Calculus AB

Lesson Plan 12: Presentations.

Overview

Today is the culmination of the unit-project, and groups present their work.

Learning Objectives

- Sharing and reviewing students' projects.

Prior Knowledge needed

Groups have worked on it for a long time, and will share it in class.

Special Materials

- Groups have their transparencies ready for presentations.

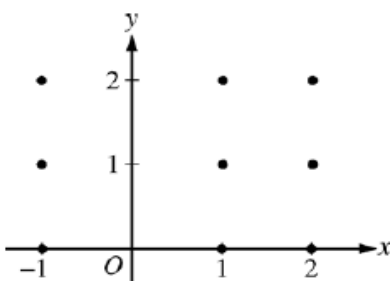
Instruction and activity

1. Below is a problem, just in case we will need something other than the presentations.

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5. Consider the differential equation $\frac{dy}{dx} = \frac{y-1}{x^2}$, where $x \neq 0$.

- (a) On the axes provided, sketch a slope field for the given differential equation at the nine points indicated.
(Note: Use the axes provided in the exam booklet.)



- (b) Find the particular solution $y = f(x)$ to the differential equation with the initial condition $f(2) = 0$.
(c) For the particular solution $y = f(x)$ described in part (b), find $\lim_{x \rightarrow \infty} f(x)$.

2. Putnam problem (extra credit), page 95: Solve .

3. Wrap-up : Which was the hardest one for you to solve (question and item) ? Why? Which was the easiest?

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