

## Problem #2 - The Nonsense Zone

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This is an enumerated list with a sublist.

1. Prove the following:
  - Prove that  $2 = 32$  under certain conditions.
  - Use the following formula:  $1x = 4y + n_{3-k}^{32i}$
2. Solve the following integrals
  - $\oint \frac{2x^2}{1-x^2} dy.$
  - $\int \int \sum_{i=0}^{i=\infty} \frac{2+x}{(i+x)^2} dy.$

1. Each item here has multiple lines in the tex file.
2. Check this out:<sup>1</sup>

$$\begin{aligned} a + 2 &= (a + b)(a + b) && \text{by definition} \\ &= a^2 + b^2 && \text{using FOIL steps} \\ &= (ab)^2 && \text{simplified} \end{aligned}$$

3. Consider the following equations,

$$\begin{aligned} \vec{\nabla} \cdot \vec{B} &\perp - \frac{\partial \vec{B}}{\partial t} \\ \vec{\nabla} \times \vec{E} &\cong - \frac{\vec{E}}{t} \end{aligned}$$

4.  $y = mx + c$  is a street line.

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<sup>1</sup>Hint: There is a L<sup>A</sup>T<sub>E</sub>X package called amsmath that is helpful with aligning formulas. Google it.