**Christoffel Symbols**

Step 2: Algebraic Manipulation

Now, let’s manipulate each term:

1. First Term

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• This term represents how the potential decreases as r increases.

2. Second and Third Terms:

• Notice that these terms cancel each other out:

• \frac{400}{c^2 r^2} \cdot \frac{1}{r} \left(1 - \frac{800}{c^2 r}\right)^{-1} + \frac{400}{c^2 r^2} \cdot \frac{1}{r} \left(1 - \frac{800}{c^2 r}\right)^{-1} = 0

• So, these contributions do not affect the Ricci tensor.