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# Common Trigonometry Mistakes

## Example: Solving an Equation

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Sometimes a problem produces numerous mistakes. This one produced enough to justify breaking the mistakes into several separate pages.

### The Context

This was a test question. Solve the equation:

$$3 \cos(2x) + 2 \sin^2(x) = 0$$

The solution requires the use of a double angle formula. This resulted in a number of mistakes.

Continue on to the Mistakes:

- Part (a)
- Part (b)
- Part (c)