The video covers the following exercises. Work along with the class! Please solve.

\[ 2x^2 + 4x - 5 = 0 \]

What is the discriminant of the above equation?

If \( b^2 - 4ac = 0 \),

If \( b^2 - 4ac < 0 \),

If \( b^2 - 4ac > 0 \),

And is a perfect square,

And is NOT a perfect square,

Describe the solutions, and solve.  

Extra challenge: plug in solution to check:

\[ x^2 - 4x + 13 = 0 \]