# MTHS2007 Notes from Week 3

**Example** Solve

$$x^2 - 2x + 2 = 0$$

**Alternative solution.**

$$x^2 - 2x + 1 + 1 = 0$$

$$= (x-1)^2 + 1$$

$$\Rightarrow (x-1)^2 = -1$$

$$\Rightarrow x - 1 = \pm i$$

$$\Rightarrow \boxed{x = 1 \pm i}$$

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