

**Übungen in AlgGeo**  $\diamond$  **Exercices en AlgGéo**  $\diamond$  **T. F1**  $\diamond$  **II / 2**

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**Probl. 1**       $\cos(6\varphi) = ?$       (Moivre)

**Probl. 2**       $\cos(\varphi)^4 = ?$       (Fourier)

**Probl. 3**       $\frac{3x^2 - 2x + 1}{x^2 + 2x + 1} = ?$       (Partialbrüche • *Fractions partielles*)

**Probl. 4**       $\frac{1}{(x-2)^2(x^2+2x+3)} = ?$       (Partialbrüche • *Fractions partielles*)

**Probl. 5**       $\frac{1}{(x-2)(x+3)} = ?$       (Partialbrüche • *Fractions partielles*)

**Probl. 6**       $w^7 = 2 + 5i = \rightsquigarrow w_0 + w_1 = \dots + w_6 = ?$