

[実習6.1

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(1)

>  $\text{solve}(x^2 - x - 1 = 0, x)$

$$\frac{\sqrt{5}}{2} + \frac{1}{2}, \frac{1}{2} - \frac{\sqrt{5}}{2} \quad (1)$$

>  $\text{evalf}(\%)$

$$1.618033988, -0.6180339880 \quad (2)$$

(2)

>  $\text{solve}(x^4 - x^2 + 1 = 0, x)$

$$\frac{\sqrt{3}}{2} - \frac{I}{2}, -\frac{\sqrt{3}}{2} + \frac{I}{2}, \frac{\sqrt{3}}{2} + \frac{I}{2}, -\frac{\sqrt{3}}{2} - \frac{I}{2} \quad (3)$$

>  $\text{evalf}(\%)$

$$0.8660254040 - 0.5000000000 I, -0.8660254040 + 0.5000000000 I, 0.8660254040 + 0.5000000000 I, -0.8660254040 - 0.5000000000 I \quad (4)$$

(3)

>  $\text{solve}(x^4 - x + 1 = 0, x)$

$\text{RootOf}(\_Z^4 - \_Z + 1, \text{index}=1), \text{RootOf}(\_Z^4 - \_Z + 1, \text{index}=2), \text{RootOf}(\_Z^4 - \_Z + 1, \text{index}=3), \text{RootOf}(\_Z^4 - \_Z + 1, \text{index}=4)$  (5)

>  $\text{evalf}(\%)$

$$0.7271360845 + 0.4300142883 I, -0.7271360845 + 0.9340992895 I, -0.7271360845 - 0.9340992895 I, 0.7271360845 - 0.4300142883 I \quad (6)$$

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