

**[2.25] Factor on complex i to show polynomial complex coefficients**

The CAS automatic simplification perturbs complex coefficients of polynomials, for example,

$$(a + bi)x^2 + (c + di)x + e + fi \quad [1]$$

becomes

$$ax^2 + cx + e + (bx^2 + dx + f) \cdot i$$

Use the *factor()* function to display coefficients associated with the independent variable, as in [1] above. For this example, use

```
factor(a*x^2+c*x+e+(b*x^2+d*x+f)*i , i)
```

where 'i' is the complex 'i', not the alphanumeric 'i'.