

## Page 134 Example 28

### Finding complex roots of a polynomial

TI-84 Plus

$$a_3x^3 + \dots + a_1x + a_0 = 0$$

$$a_3 = 1$$

$$a_2 = -6$$

$$a_1 = 25$$

$$a_0 = 82$$

$$\text{[MAIN][MODE][CLR][LOAD][SOLVE]}$$

$$a_3x^3 + \dots + a_1x + a_0 = 0$$

$$x_1 = 4 + 5i$$

$$x_2 = 4 - 5i$$

$$x_3 = -2$$

$$\text{[MAIN][MODE][COEF][STO][F4][D]}$$

Casio fx-9860GII

$$aX^3 + bX^2 + cX + d = 0$$

a	b	c	d
1	-6	25	82

82

$$\text{[SOLVE][DEL][CLR][EDIT]}$$

$$aX^3 + bX^2 + cX + d = 0$$

X1	X2	X3
-2	4 + 5i	4 - 5i

-2

$$\text{[REPT]}$$