

$$12.2 \quad p(x) = x^5 - 2x^4 - x + 2$$

(x-1)

0

$$k|2 \Rightarrow k \in \{\pm 1, \pm 2\} \quad \left. \vphantom{k|2} \right\} \frac{k}{m} \in \{\pm 1, \pm 2\}$$

$$m|1 \Rightarrow m \in \{1\}$$

NOTE: 1, -1, 2, ±i

	1	-2	0	0	-1	2
①	1	-1	-1	-1	-2	0
	1	1	0	1	-2	4
①	1	-2	1	-2	0	
	1	1	-3	4	6	
②	1	0	1	0		

$x^2 + 1$

$x^2 + 1 = 0$   
 $x^2 = -1$   
 $x = \pm i$

$$p(x) = (x-1)(x+1)(x-2)(x-i)(x+i)$$

NAD  $\mathbb{C}$

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

NAD  $\mathbb{R}$