## ○ 全国硕士研究生招生考试

# 管综数学极简模式

因式分解

主讲人:夏天老师



因式分解:

①平方差公式: a + b)(a - b) =  $a^2 - b^2$ 

②完全平方公式:  $(a \pm b)^2 = a^2 \pm 2ab + b^2$ 

③立方和差公式:  $a^3 \pm b^3 = (a \pm b)(a^2 \mp ab + b^2)$ 



1.(2018)设实数a,b满足|a - b| = 2,

$$|a^3 - b^3| = 26$$
,  $Ma^2 + b^2 = 1$ 

A.30

B.22

C.15

D.13

E.10

1.(2018)设实数
$$a$$
,  $b$ 满足| $a - b$ | = 2,

$$|a^3 - b^3| = 26$$
,  $|a^2 + b^2| = |a|$ 

$$2, \qquad |a^{3}-b^{2}| = (a-b)(a^{2}+ab+b^{2})$$

$$|a^{3}-b^{3}| = |a-b||a^{2}+ab+b^{2}| = 2b$$

$$|a^{2}-b^{3}| = |a-b||a^{2}+ab+b^{2}| = 2b$$

$$|a-b|| = 2 |a^{2}+ab+b^{2}| = 2b = 2^{2}$$

$$|a-b|| = 2 |a^{2}+ab+b^{2}| = 4$$

$$|a-b|| = 2 |a^{2}+b^{2}-4$$

$$|a-b|| = 2 |a^{2}+b^{2}-4$$

$$|a-b|| = 2 |a^{2}+b^{2}-4$$

$$|a-b|| = |a-b||a^{2}+ab+b^{2}| = 2^{2}$$

$$|a-b|| = |a-b||a^{2}+ab+b^{2}| = 2^{2}$$

$$|a-b|| = |a-b||a^{2}+ab+b^{2}| = 2^{2}$$

$$|a-b|| = |a^{2}+b^{2}-4$$

$$|a-b|| = |a^{2}+ab+b^{2}-4$$

$$|a-b|| = |a^{2}+b^{2}-4$$



2.(2019)设实数a,b满足ab=6,

$$|a+b|+|a-b|=6$$
,  $y|a^2+b^2=1$ 

A.10

B.11

**C.12** 

D.13

E.14

2.(2019)设实数a,b满足ab=6,

$$|a+b|+|a-b|=6$$
,  $y = a^2 + b^2 = D$ 

A.10

B.11

**C.12** 

D.13

E.14

12 ab = 6 > 0 , QI a BIRTARY TANG の落局为色、可没のでありい |a+b| + |a-b| = 6= a+h+a-h = 2a=b= 2a = 3 b = 2  $a^2 + b^2 = 13$ 回若周为负、爱a兰beo |a+b| + |a-b| = -(a+b) - (a-b)=-a-b-a+b= -2a = 6  $= -2 \cdot b = -2 \cdot a^2 + b^2 = 13$ 

极为力