○ 全国硕士研究生招生考试

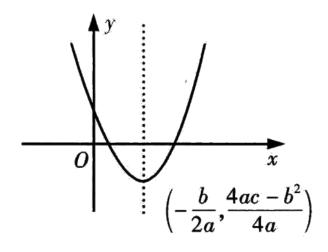
管综数学极简模式

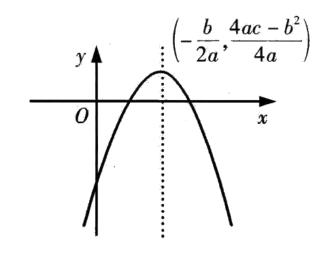
对称轴

主讲人:夏天老师



1.对称轴: $x = -\frac{b}{2a}$, 最值: $\frac{4ac-b^2}{4a}$ (对称轴在定义域内)







1.(2013)已知抛物线 $y = x^2 + bx + c$ 的对称

轴为x = 1,且过点(-1,1),则【 】

$$A.b = -2, c = -2$$

B.
$$b=2, c=2$$

$$C.b = -2, c = 2$$

$$D.b = -1, c = -1$$

$$E.b=1, c=1$$



1.(2013)已知抛物线 $y = x^2 + bx + c$ 的对称

轴为x = 1, 且过点(-1,1), 则【A】

$$A.b = -2, c = -2$$

B.
$$b=2, c=2$$

$$C.b = -2, c = 2$$

$$D.b = -1, c = -1$$

$$E.b=1, c=1$$



2.已知 $a, b, c \in R$, 函数 $f(x) = ax^2 + bx + c$, 若f(0) = f(3) > f(1),

则【】

$$A.a > 0, 3a+b=0$$

B.
$$a < 0$$
, $3a+b=0$

$$C.a > 0, 2a+b=0$$

$$D.a < 0, 2a+b=0$$

$$E.a > 0, 3a+2b=0$$



2.已知 $a, b, c \in R$, 函数 $f(x) = ax^2 + bx + c$, 若f(0) = f(3) > f(1),

则【A】

$$A.a > 0, 3a+b=0$$

B.
$$a < 0$$
, $3a+b=0$

$$C.a > 0, 2a+b=0$$

D.
$$a < 0$$
, $2a+b=0$

$$E.a > 0, 3a+2b=0$$

$$f(0) = f(3)$$

$$7 = -\frac{b}{2a} = \frac{0+3}{2}$$

$$-\frac{b}{2a} = \frac{3}{2}$$

$$60 = 34$$

$$6a = -2b$$

$$3a = -b$$

$$3a + b = 0$$

$$f(0) = C$$
 $f(3) = 9a + 3b + C$
 $f(0) = f(3) = C = 9a + 3b + C$
 $9a + 3b = 0$
 $3a + b = 0$