GRE数学

3.2 直线不等式

M A K E I T E A S Y

3.2.1 绝对值不等式的定义

$$|x| \le a \leftrightarrow -a \le x \le a, a > 0$$

$$|x|$$
≥a \leftrightarrow x≥a或x≤-a,a>0

3.2.2 不等式求解注意事项

- 1. 若不等式两边同乘以负号,不等号要改变方向;
- 2. 对于绝对值不等式,当把绝对值符号展开时,要写清不等式的范围;

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例:
$$|x-4| < 3, |x-4| > 3$$



3.2.3 练习

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渝新拓拓

1. x+2y=12 and 2y>7

Quantity A: x

Quantity B: y

- 2. If x<y, which of the following must be true?
- A. 2x<y
- B. 2x>y
- C. $x^2 < y^2$
- D. 2x-y<y
- E. 2x-y<2xy

3. x<y-2

Quantity A: The average (arithmetic mean) of x and y

Quantity B: y-1

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渝新振方在线

4. Two different points on a number line are both 3 units from the point with coordinate -4. The solution to which of the following equations gives the coordinates of both points?

- A. |x + 4| = 3
- ||x 4|| = 3
- C. |x+3|=4
- ||D|| ||x 3|| = 4



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