a, b, c, d are positive integers such that exactly one of the following inequalities is false. Which inequality is false?

- (A) a<b
- (B) c<d
- (C) a+c<b+c
- (D) a+c<b+d
- (E) a<b+c+d

2

Which of the following inequalities has a solution set that, when graphed on a number line, is a single, finite line segment?

A. x > = 4

B. x²>=4 C. x³>=64

D. |x| > = 4

E. |x| < =4

3

can you explain why are you flipping sign?

n> - 1/10.

why 1/n<-10?

if n=4 for example 4>-1/10 and 1/4>-10. why to flip sign?

4

Which of the following describes all values of x for which $1-x^2 \ge 0$?

A. $x \ge 1$

B. $x \leq -1$

C. $0 \le x \le 1$

D. $x \le -1$ or $x \ge 1$

 $E. -1 \le x \le 1$

5

If $x < y < z_{\rm but}$ $x^2 > y^2 > z^2 > 0$, which of the following must be positive?

- а. $x^3 y^4 z^5$
- $x^3y^5z^4$
- c. $x^4 y^3 z^5$
- $_{ ext{D.}} x^4 y^5 z^3$
- $_{\rm E.} \, x^5 y^4 z^3$