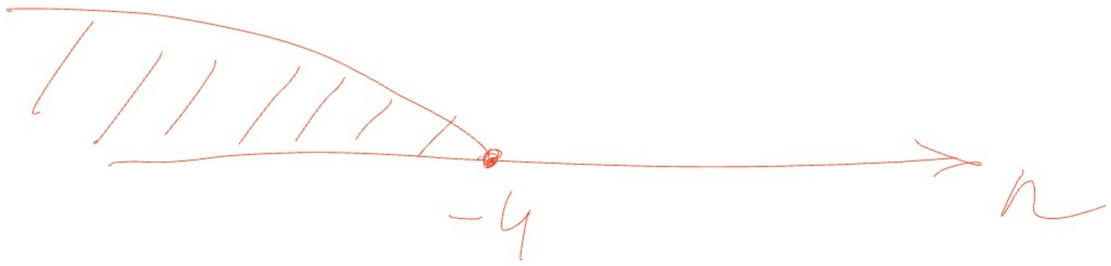
16.10.2023 (понедельник)

125. При каких значениях n значения выражения $12n - 5$ не больше -53?

$12n - 5 \leq -53$

$12n \leq -48$

$n \leq -4$ $\quad (-\infty; -4]$



127. Найдите область определения функции:

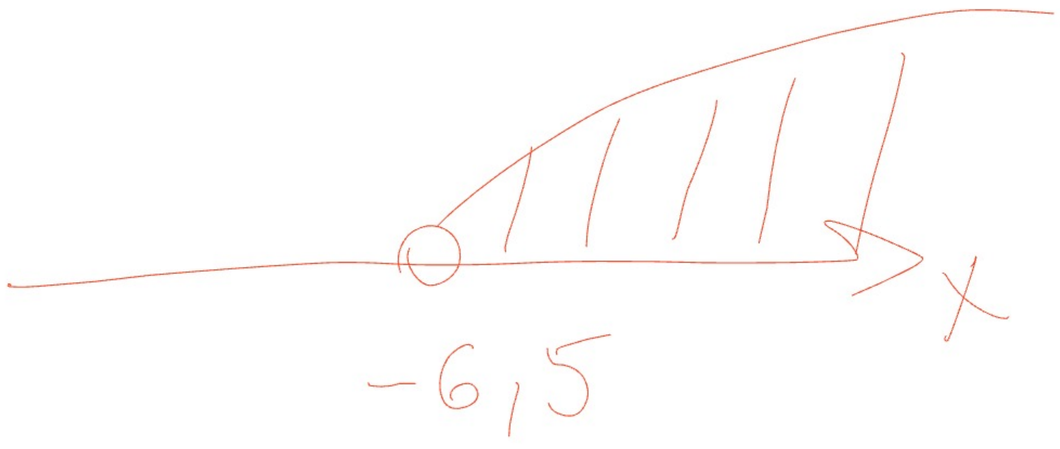
1) $f(x) = \sqrt{13 - 2x}$; 2) $f(x) = \dfrac{x}{\sqrt{-x - 1}}$.

1) $13 - 2x > 0$

$2x > -13$

$x > -13 : 2$

$x > -6{,}5$ $(-6{,}5; +\infty)$

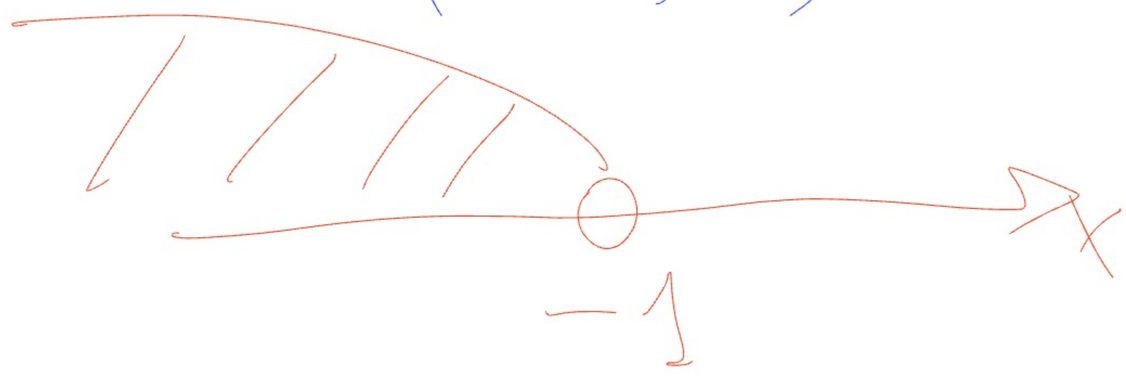


2) $-x - 1 > 0$

$-x > 1$

$x < -1$

$(-\infty; -1)$



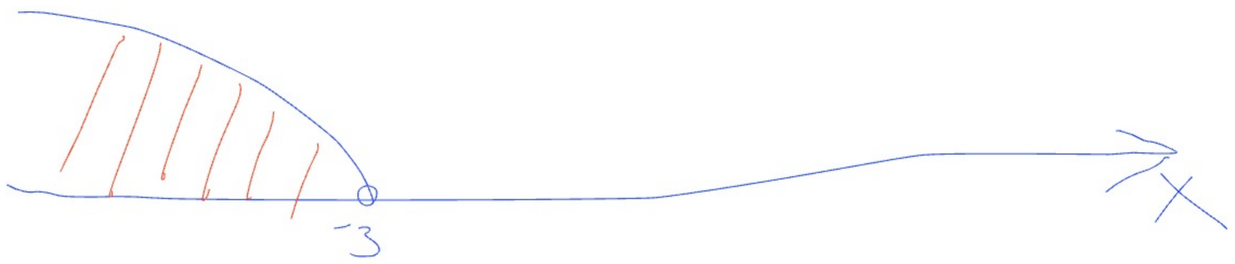
129. Решите неравенство:

1) $4 + 11x > 7 + 12x$;
2) $35x - 28 \le 32x + 2$;
3) $3x - 10 < 6x + 2$;
4) $6x - 3 \ge 2x - 25$.

1) $4 + 11x > 7 + 12x$

$-x > 3$

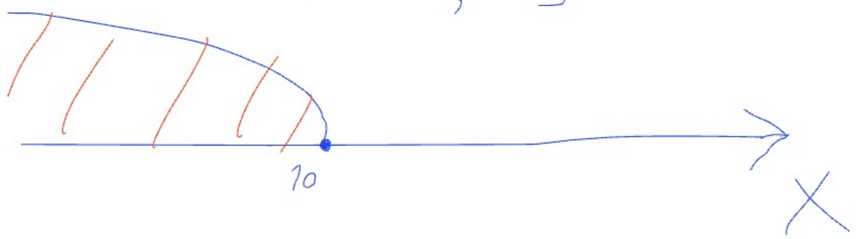
$x < -3$ $(-\infty; -3)$



2) $35x - 28 \le 32x + 2$

$3x \le 30$

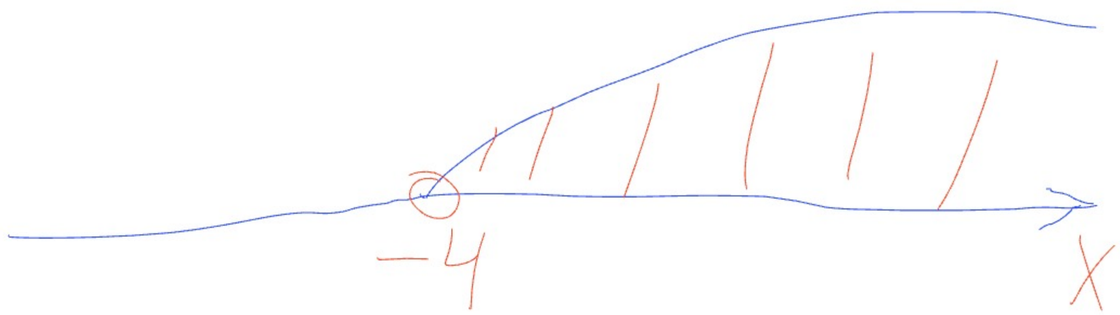
$x \le 10 (-\infty; 10]$



3) $3x - 10 < 6x + 2$

$-3x < 12$

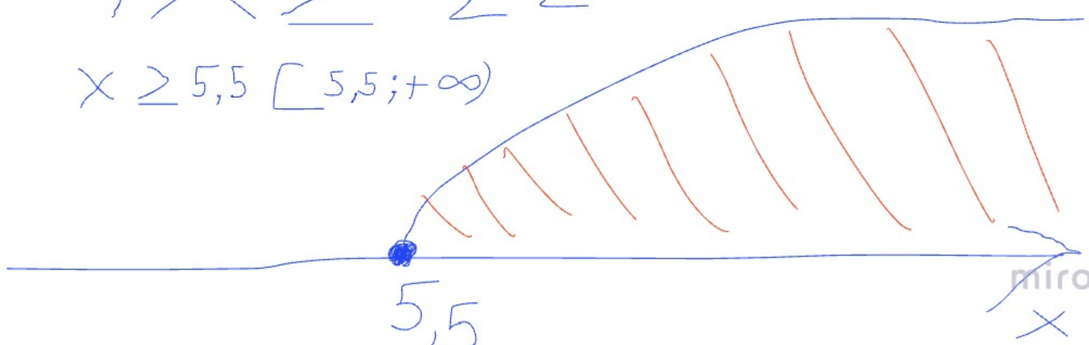
$x > -4$ $[-4; \infty)$



4) $6x - 3 \ge 2x - 25$

$4x \ge -22$

$x \ge 5{,}5$ $[5{,}5; +\infty)$

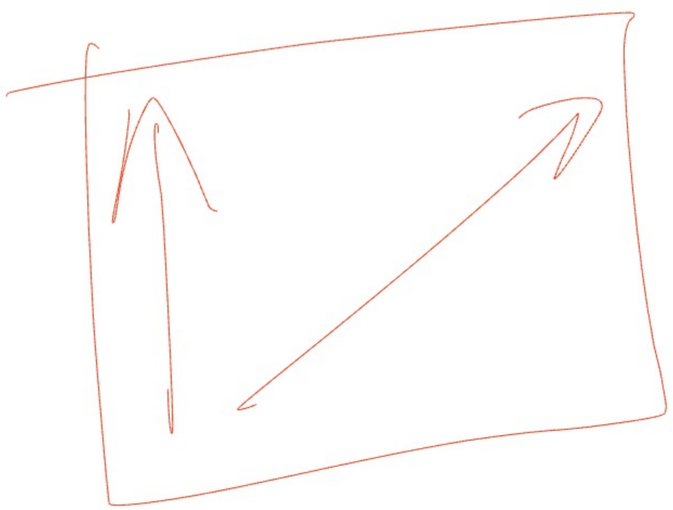


$\vec{a}$

$\overrightarrow{AB}$

A B

$|\vec{AB}| = 3$



$\overrightarrow{BA}$

B A

$\overrightarrow{AB} \uparrow\downarrow \overrightarrow{DC}$

$\overrightarrow{DC}$ C

D

A

$\overrightarrow{AB}$

B

$\vec{a}$

$\vec{b}$

$\vec{a} \uparrow\uparrow \vec{b}$

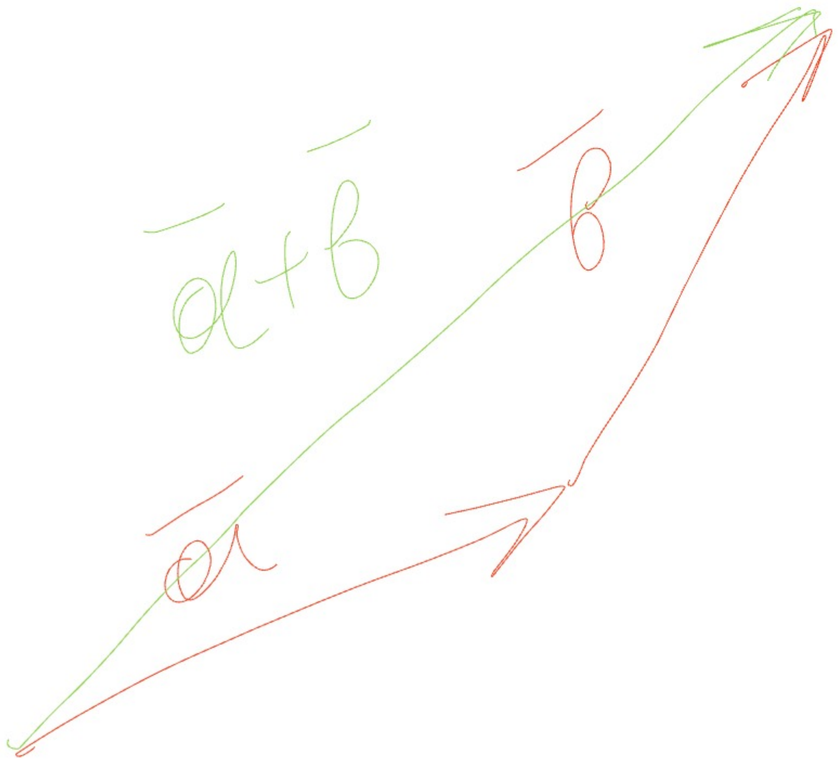
векторы

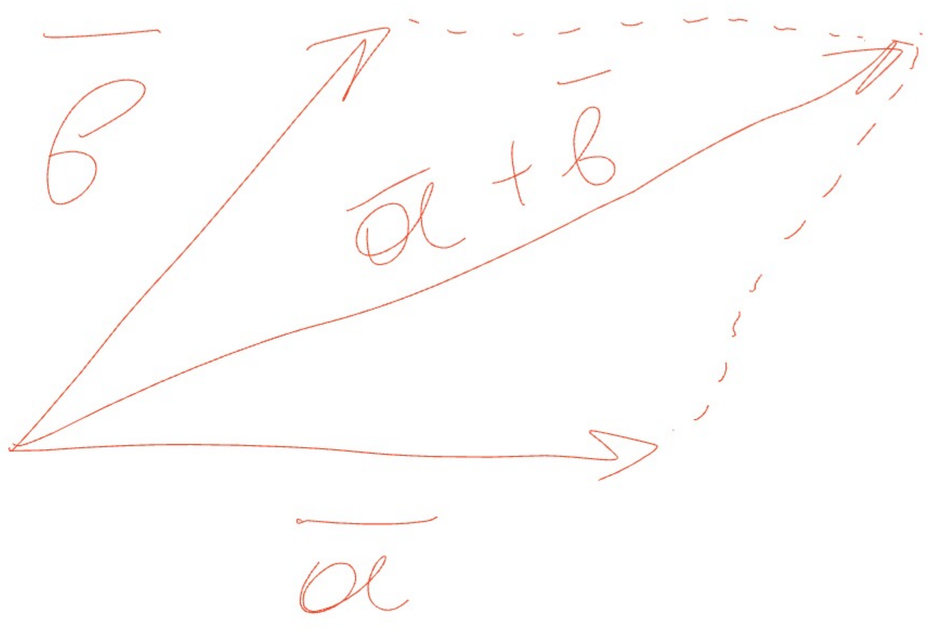
коллинеарны

неколлинеарны

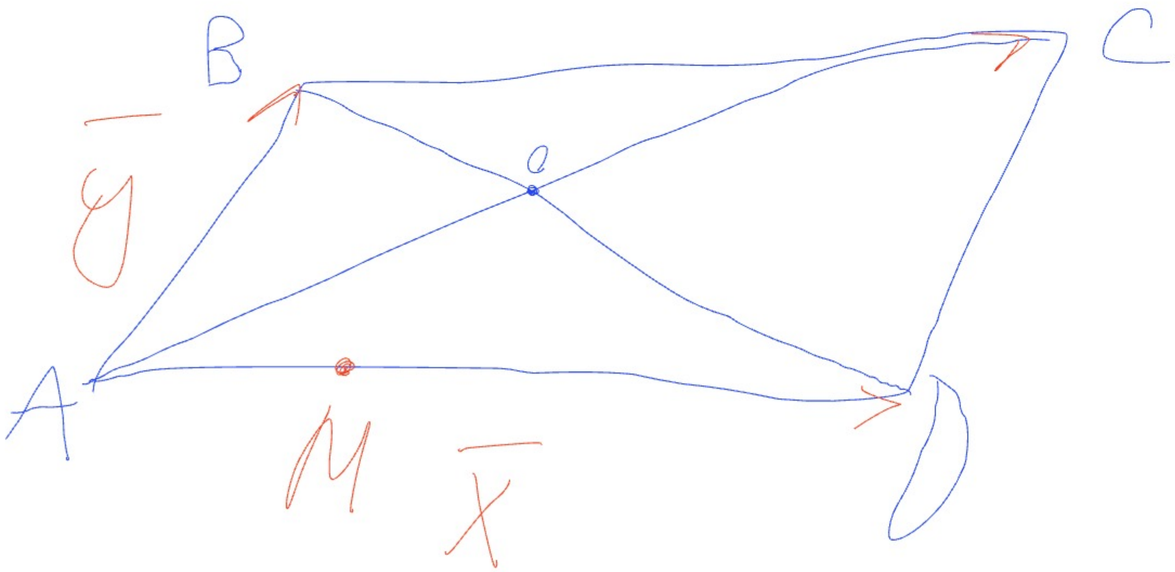
сонаправлены

противоположно направлены





№784.



$$\overline{AC} = \overline{AB} + \overline{AD} = \overline{y} + \overline{x}$$