$$\sqrt{f(x) < g(x)}, \quad \sqrt{f(x) > g(x)}$$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

1. ОДЗ: $f(x) \geq 0$;

2. $g(x) > 0$. При $g(x) \leq 0$ неравенство не имеет решения.

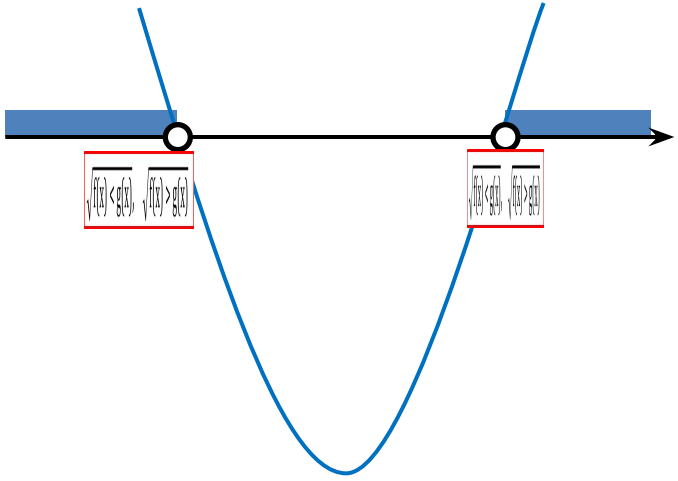
$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

Решение.

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$



$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$x^2 - x - 2 > 0;$

$x_1 = -1, \; x_2 = 2;$

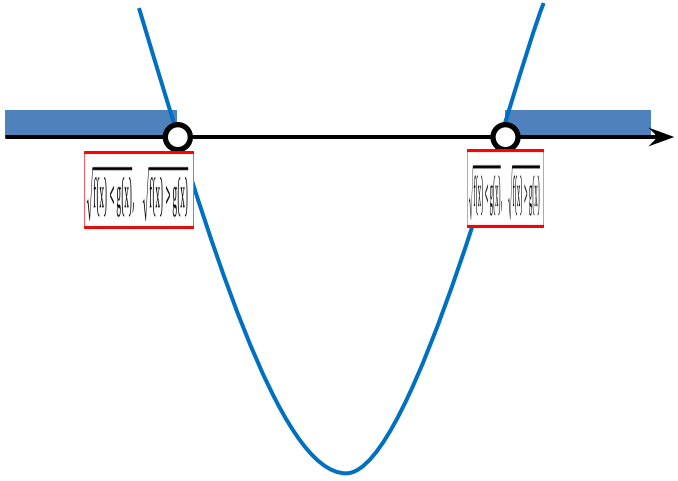
$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

Решение.

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$



$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$x_1 = -2, \; x_2 = 7;$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$$\sqrt{f(x) < g(x)}, \quad \sqrt{f(x) > g(x)}$$

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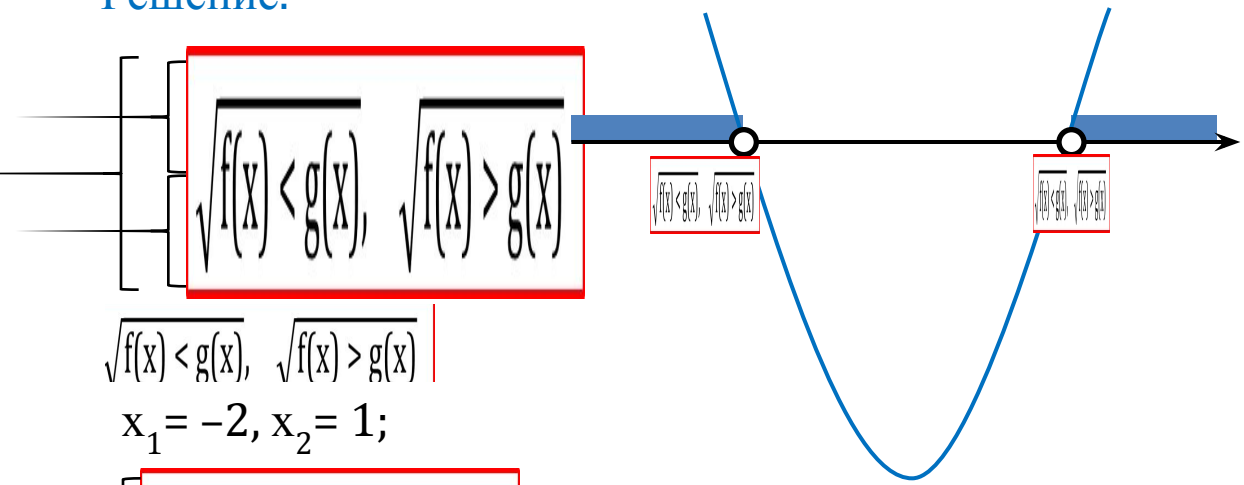
3.

$$\sqrt{f(x) < g(x)}, \quad \sqrt{f(x) > g(x)}$$

$$\sqrt{f(x) < g(x)}, \quad \sqrt{f(x) > g(x)}$$

$$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$$

Решение.



$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$x_1 = -2, x_2 = 1;$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$x \in (-\infty;$

$-2).$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

Решение.

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$x_1 = -2, x_2 = 1;$

$x \in (-\infty; -2);$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$x \in (2;$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$

$\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)$