

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

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

1. ОДЗ: $f(x) \geq 0$;

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

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Решение.

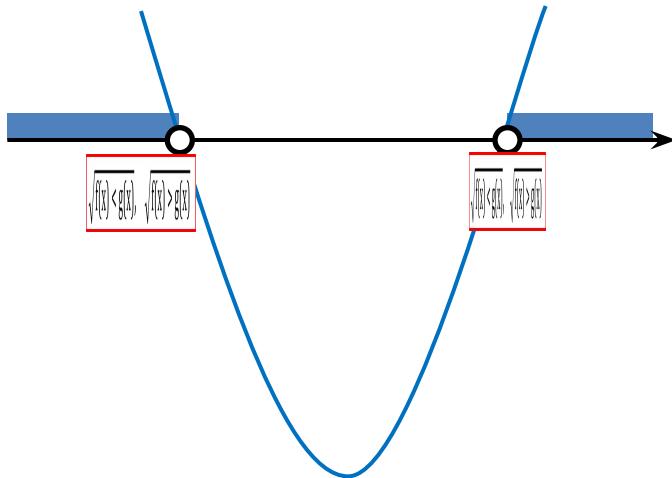
$$\left[\begin{array}{l} \sqrt{f(x) < g(x)}, \quad \sqrt{f(x) > g(x)} \end{array} \right]$$

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

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

$$\left[\begin{array}{l} \sqrt{f(x) < g(x)}, \quad \sqrt{f(x) > g(x)} \end{array} \right]$$



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Решение.

$$\begin{cases} \sqrt{f(x)} < g(x), \\ \sqrt{f(x)} > g(x) \end{cases}$$

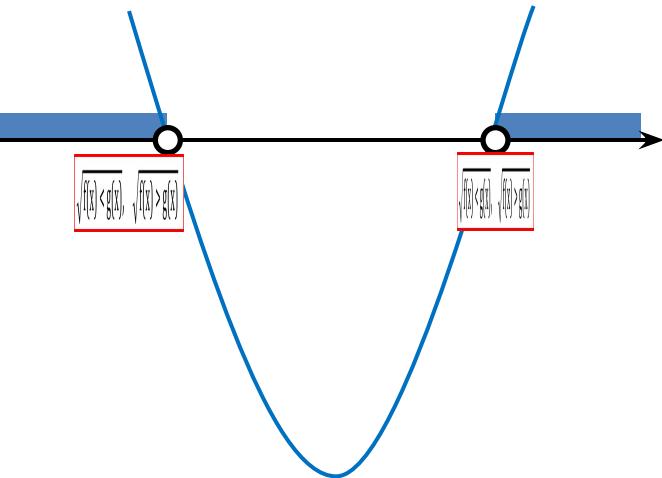
$$\begin{cases} \sqrt{f(x)} < g(x), \\ \sqrt{f(x)} > g(x) \end{cases}$$

$$\begin{cases} \sqrt{f(x)} < g(x), \\ \sqrt{f(x)} > g(x) \end{cases}$$

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

$$\begin{cases} \sqrt{f(x)} < g(x), \\ \sqrt{f(x)} > g(x) \end{cases}$$

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$$3. \quad \boxed{\boxed{\sqrt{f(x)} < g(x), \quad \sqrt{f(x)} > g(x)}}$$

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Решение.

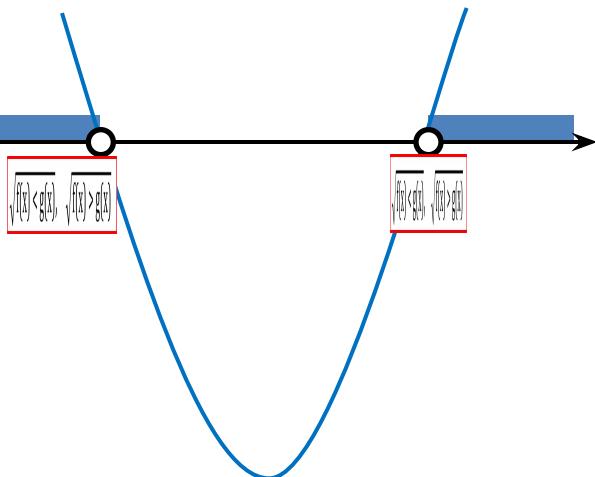
$$\left[\begin{array}{l} \sqrt{f(x)} < g(x), \\ \sqrt{f(x)} > g(x) \end{array} \right]$$

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

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

$$\left[\begin{array}{l} \sqrt{f(x)} < g(x), \\ \sqrt{f(x)} > g(x) \end{array} \right]$$

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



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Решение.

$$\begin{cases} \sqrt{f(x)} < g(x), \\ \sqrt{f(x)} > g(x) \end{cases}$$

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

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

$$\begin{cases} \sqrt{f(x)} < g(x), \\ \sqrt{f(x)} > g(x) \end{cases}$$

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

$$\begin{cases} \sqrt{f(x)} < g(x), \\ \sqrt{f(x)} > g(x) \end{cases}$$

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$$x \in (2;$$

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