

БДЗ №2

Решить неравенства:

1. $2x - 5x^2 < 0$

2. $6x - 5 - x^2 \geq 0$

3. $-4x^2 + 20x > 25$

4. $(2-x)(3x+1)^2(2x-3) \geq 0$

5. $\frac{x-5}{x^2+7x} \leq 0$

6. $\frac{(x+1)(x+2)(x+3)}{(2x-1)(x+4)(3-x)} \leq 0$

7. $\frac{x^2+6x+9}{5+4x-x^2} \geq 0$

8. $\frac{x^2(6-x)^3(x+4)}{(x+7)^5} \geq 0$

9. $\frac{(1-2x)^3(3-2x)^4}{(2x-5)^5} \leq 0$

10. $\frac{2x+3}{12-x-x^2} + \frac{1}{2} \geq 0$

11. $\frac{5-2x}{3x^2-2x-16} < 1$

12. $\frac{5-4x}{3x^2-x-4} < 4$

13. $\frac{6}{x-1} \leq \frac{3}{x+1} + \frac{7}{x+2}$

14. $\frac{(5x+4)(3x-2)}{x+3} \leq \frac{(3x-2)(x+2)}{1-x}$

15. $\frac{x^3-x^2+x-1}{x+8} \leq 0$

16. $x^2 - 5|x| + 6 < 0$

17. $|x^2 + 3x| \leq 4$

18. $|x^2 + 7x - 7| \leq 2x + 7$

19. $|5x + 7| \geq 3x^2 + 11x - 2$

20. $\frac{|x+2|}{x^2+3x+2} \geq 2$