

29 求反函数

1. $y = 3x - 2 (x \in R)$

2. $y = 3x^3 (x \in R)$

3. $y = \sqrt{x+2} (x \geq -2)$

4. $y = \frac{2}{x-1} (x \neq 1)$

5. $y = \frac{x-1}{2x+1} (x \neq -\frac{1}{2})$

6. $y = 2x^2 + 1 (x \geq 0)$

7. $y = 5x^4 + 2 (x \geq 0)$

8. $y = \sqrt{1-x} (x \leq 1)$

9. $y = 2x + 1 (0 \leq x < 10)$

10. $y = 5 - 3x (-1 \leq x \leq 1)$

11. $y = x^2 + 1 (1 \leq x \leq 2)$

12. $y = \sqrt{x-2} (2 \leq x \leq 4)$

13. $y = 2^x (x \in R)$

14. $y = 3^x + 1 (x \in R)$

15. $y = \lg \frac{x}{10} (x > 0)$

16. $y = 2\log_2(x-1) (x > 1)$

17. $y = \frac{10^x - 10^{-x}}{2}$

18. $y = \frac{10^x - 10^{-x}}{10^x + 10^{-x}}$

19. 若 $y = \frac{ax+b}{cx+d}$ 的反函数为其自身, 探索 a, b, c, d 满足的规律