

Исследование ф-ции

1. $y = x + |x-1| \cdot x^{3/2}$

1. ООФ: $x > 0$

2. $y'(x) =$

$$x > 1: (x + (x-1)x^{3/2})' = 1 + x^{3/2} + \frac{3}{2}x^{1/2}(x-1)$$

$$x < 1: (x + (-x+1)x^{3/2})' = 1 + (-1) \cdot x^{3/2} + (-x+1) \cdot \frac{3}{2}x^{1/2}$$

