1) 
$$S(f) = 0 - \delta - l_1 \lambda^3$$

1)  $S(f) = 0 - \delta - l_2 \lambda^3$ 

2)  $g' = \frac{(-x)^2}{(-x)^2 + y^2} = \frac{x^2}{x^2 + y^2} = f(x) = \int ca f fa suda$ 

2)  $g' = \frac{2x \cdot (x^2 + l) - x^2 \cdot 2x}{(x^2 + l)^2} = \frac{2x^3 - 8x - 2x^3}{(x^2 + l)^2} = \frac{-8x}{(x^2 + l)^2}$ 

$$= \frac{-8x}{(x^2 + l)^2} = 0 = \int x = 0$$

3)  $g'' = \frac{-8(x^2 + l)^2 + 8x \cdot 2 \cdot (x^2 + l) \cdot 2x}{(x^2 + l)^2} = \frac{(x^2 + l) \cdot [-8 \cdot (x^2 + l) + 8x \cdot 2 \cdot 2x]}{(x^2 + l)^3} = \frac{-8x^2 + 32 \cdot x^2 + 32 \cdot x^2}{(x^2 + l)^3} = 0 = \int x \in 0$ 

3)  $g'' = \frac{-8(x^2 + l)^2 + 8x \cdot 2 \cdot (x^2 + l) \cdot 2x}{(x^2 + l)^3} = \frac{24x^2 + 32}{(x^2 + l)^3} = 0 = \int x \in 0$ 

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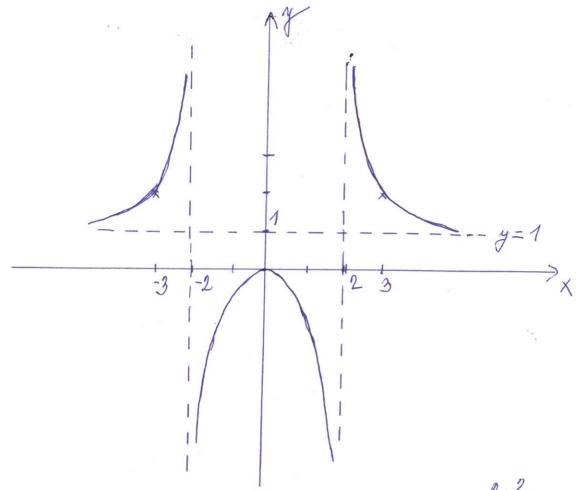
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$$= \frac{-8x^2 + 32 \cdot x^2}{(x^2 + l)^$$

8) graf



1/2: Vysatrata průběh funkce  $f: y = \frac{2x^2}{1-x^2}$ -příklad na procvičaní