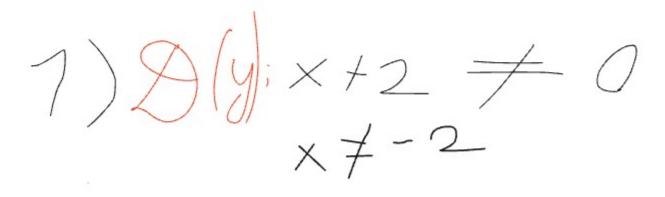
248. Найдите область определения функции и постройте её график:

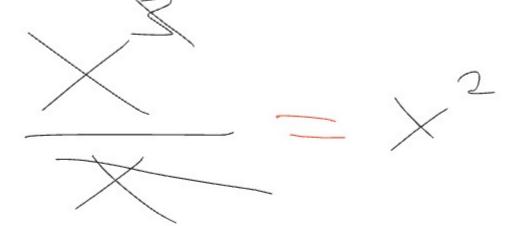
1)
$$f(x) = \frac{x^2 + 4x + 4}{x + 2}$$
; 2) $f(x) = \frac{x^3}{x}$.

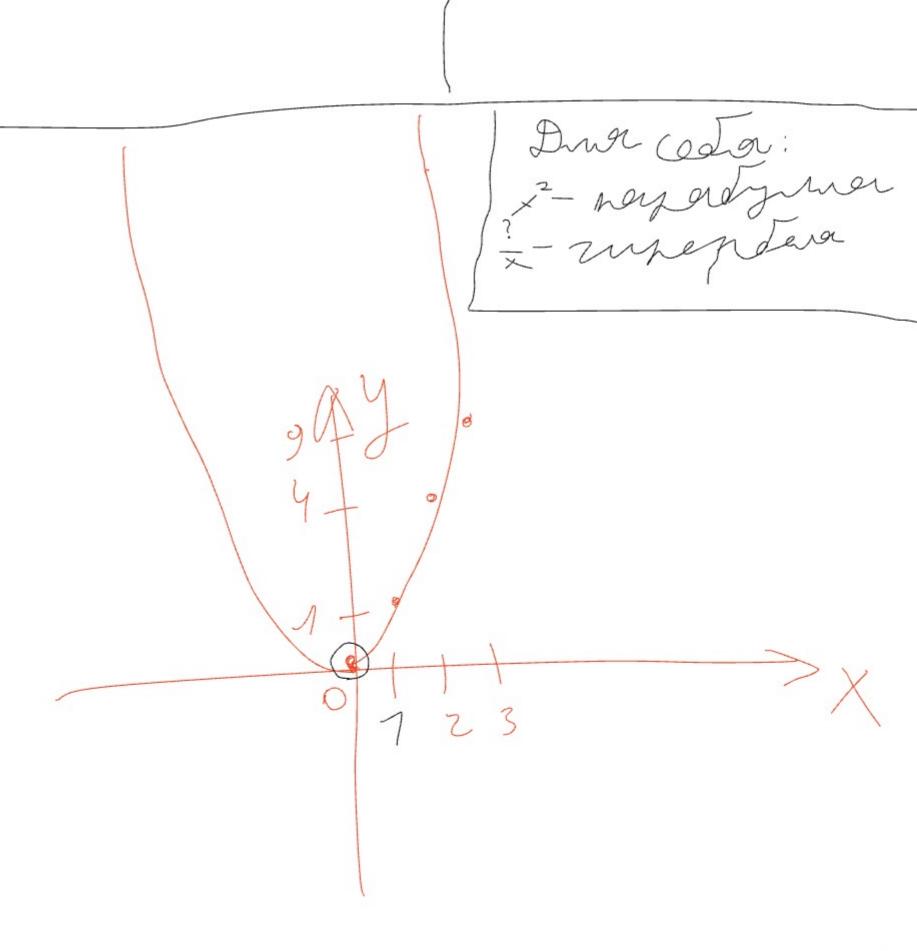
2)
$$f(x) = \frac{x^3}{x}$$
.



$$y = \frac{x^2 + 4x + 4}{x + 2} = \frac{(x + 2)^8}{x + 2} = x + 2$$

$$\int (y) dx \neq 0$$





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1) $x^2 - x - 12$;

$$\times_2 = \frac{7-7}{2} = \frac{-6}{2} = -3$$

$$X^{2} - X - 12 = (X - Y) (X +$$

$$\sqrt{299}$$
 3) $6x^2 + 11x - 2$;

$$6x^{2} + 11x - 2 = 0$$

$$1 = \sqrt{2} - 7aC$$

$$D = 127 - 7.5.(-2) = 127 - 27.(-2) = 127 - (-48) = 188$$

$$2x_{12} = \frac{-6.5.407}{2a}$$

$$x_{1} = \frac{-17 + 28}{12} = \frac{2}{72} = \frac{1}{6}$$

$$x_{2} = \frac{-17 - 12}{72} = -\frac{27}{72} = -2$$

$$6x^{2} + 11x - 2 = 6(x - \frac{1}{6})(x + 2) = (6x - \frac{1}{6})(x + 2)$$
mire

250. Вычислите значение выражения:

1)
$$(10^3)^2 \cdot 10^{-8}$$
;

3)
$$\frac{81^{-2} \cdot 3^5}{9^{-2}}$$

2)
$$\frac{25^{-3} \cdot 5^3}{5^{-5}}$$
;

4)
$$\frac{0,125^3 \cdot 32^2}{0,5^{-2}}$$
.

$$1) (10^3)^2 \cdot 10^{-8} = 10^6 \cdot 10^{-8} = 10^{6 + (-8)} = \frac{1}{10^2}$$

$$\frac{25^{-3} \cdot 5^{3}}{5^{-5}} = \frac{5^{-3} \cdot 5^{3}}{5^{-5}} = \frac{5^{-3+(-3)+3}}{5^{-5}} = \frac{5^{-3-(-5)}}{5^{-5}} = \frac{5^{-3-(-5)}}{5^{-5}} = 25$$

 $a^n \cdot a^m = a^{n+m}$;

 $\frac{a^n}{a^m} = a^{n-m};$

 $\left(a^{n}\right)^{m}=a^{nm};$

 $(ab)^n = a^n \cdot b^n;$

 $\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$.