

1572
$$y = \frac{4w}{v}$$

2 $\frac{9(y)-1(y-w)}{v}$

2 $\frac{8(y)-1(y-w)}{v}$

3 $\frac{8y-0}{v} = \frac{3}{v}$

4a) of lepton ac.

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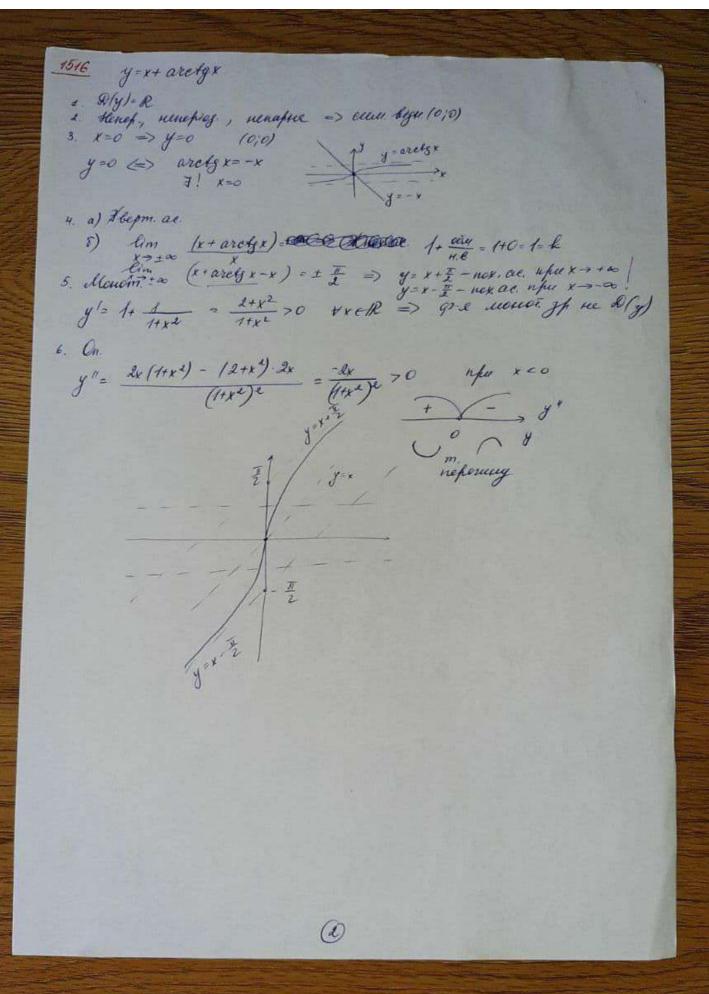
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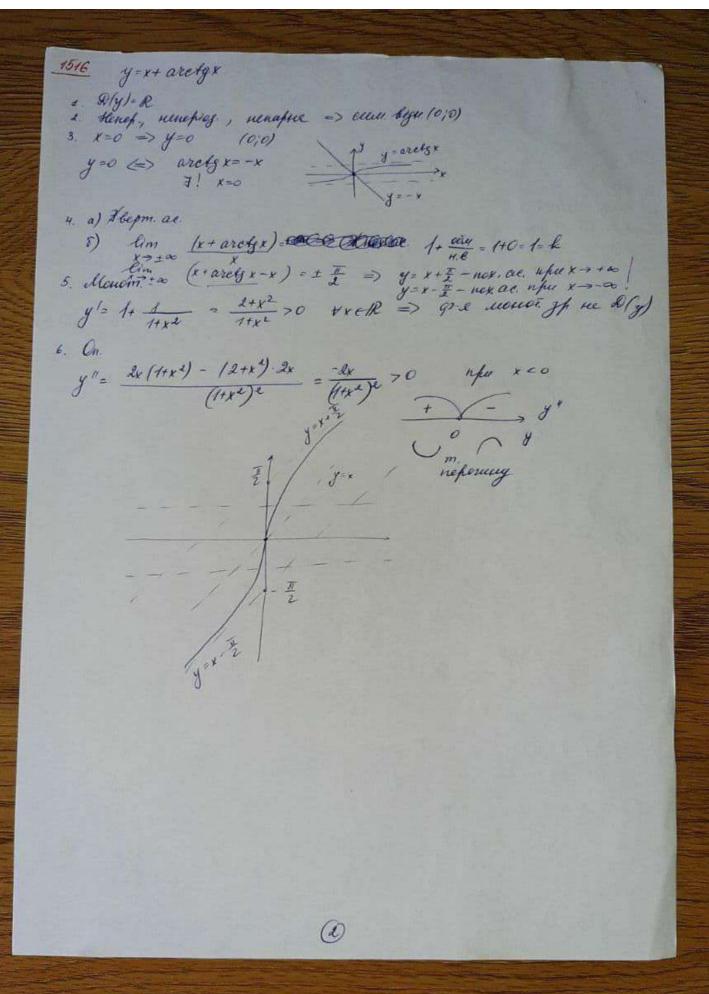
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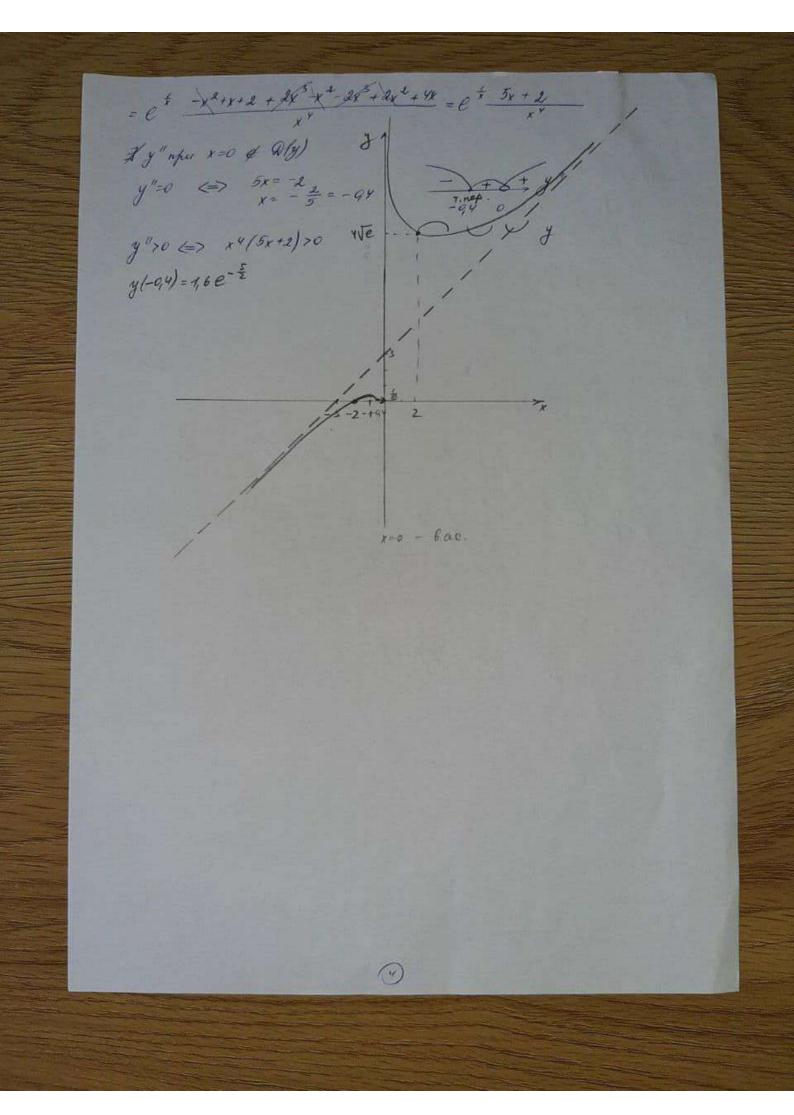
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4. REPETHH 3 OCAMU KOOPAUHAT a) X=0 => y=... T) y=0 => x=... MOHOT OHHICTO, T. extz H.Y. Af'(x) => x = ... \ CTayio g.y. $f'(x)=0 \Rightarrow x=... \left\{ \begin{array}{l} \mu a \rho \mu i \\ To z \kappa u \end{array} \right.$ $= \underbrace{\left\{ \begin{array}{l} + \\ + \end{array} \right\}}_{K} \left\{ \begin{array}{l} + \\ + \end{array} \right\}$ XI YXZ XXX XX XX X5 T f(x)
T. min T. min ОПУКЛІСТЬ, Т. Перегину - 5 onykna + 5 602 f(x) Xg XG XZ XS (f(x))

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11054AOBA [PAPIKA f = f(x)1. D(f) = Bigpazy E(f) = no rpagaixy 2. MepioanyHicTo, MAPHICT'S, . -HEMEPEPBHICTO. 3. ACUMNTOTH: a) X = X0 - T. pozpuby [1]p.=> X = X0 - BEPTHKANBHA 5) IKUGO F CKIHTEHHUU lim f(x)-k FCKIHYEHHUU lim(flx)--kx) = 6, Togi I y= kx+ B-noxusa ac-79

1521

$$y = (x+x)e^{\frac{1}{4}}$$
 $x = (x+x)e^{\frac{1}{4}}$
 $x = (x+x)e^{\frac{1}{4}} = 2e^{-x} = 2e^{x} = 2e^{-x} = 2e^{-x}$

$$\frac{1}{1+x} = 1 - x + x^2 - x^3 + x^4 + o(x^4),$$

$$\frac{1}{1-x} = 1 + x + x^2 + x^3 + x^4 + o(x^4),$$

$$\sqrt{1+x} = 1 + \frac{x}{2} - \frac{x^2}{8} + \frac{x^3}{16} + o(x^3),$$

$$\frac{1}{\sqrt{1+x}} = 1 - \frac{x}{2} + \frac{3x^2}{8} - \frac{5x^3}{16} + o(x^3).$$

Представления формулой Маклорена табличных функций при x → 0

$$\sin x = x - \frac{x^3}{6} + \frac{x^5}{120} + o(x^6),$$

$$\cos x = 1 - \frac{x^2}{2} + \frac{x^4}{24} + o(x^5),$$

$$\sinh x = x + \frac{x^3}{6} + \frac{x^5}{120} + o(x^6),$$

$$\cosh x = 1 + \frac{x^2}{2} + \frac{x^4}{24} + o(x^5),$$

$$\tan x = x + \frac{x^3}{3} + \frac{2x^5}{15} + o(x^6),$$

$$\tan x = x - \frac{x^3}{3} + \frac{2x^5}{15} + o(x^6),$$

$$\arctan x = x + \frac{x^3}{6} + \frac{3x^5}{40} + o(x^6),$$

$$\arctan x = x - \frac{x^3}{3} + \frac{x^5}{5} + o(x^6),$$

$$\ln(1+x) = x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + o(x^4),$$

$$\ln(1-x) = -x - \frac{x^2}{2} - \frac{x^3}{3} - \frac{x^4}{4} + o(x^4),$$

$$\ln(x + \sqrt{1+x^2}) = x - \frac{x^3}{6} + \frac{3x^5}{40} + o(x^6),$$