Theoper beparencemen
Domerunee Jeganus N3 (mogyus 2)
Cheegeauswooms U47,-3-ii keype, 5-ii cenecrep
Uncegeb Humana Dumpushar
U47-536
Bapuaum 14

3 again I Thou I choca canonema brimerience no op-re

I = arcsin(\frac{u}{v}\sin \epsilon)

reg \(\varepsilon \) guicombir tempa, \(u - \varepsilon \) coperato tempa, \(v - \varepsilon \) possessione to agunaxolome equinagan).

Cruman, \(\tau \tau \) protenus \(\text{y-ra} \) poblome professione to rumes love \((-\varepsilon \varepsilon \)), \(u \text{asyme} \) \(u - \text{ms} \) protenus \(\text{y-ra} \) possessione \(\text{possessione} \) \(\text{y-ra} \) \(\text{possessione} \) \(\text{y-ra} \) \(\text{choca} \)

Thus \(u = 2\varepsilon \text{r} \) \(v = 720 \) \(\text{kn} \) \(\text{possessione} \)

Terre pue

1) Thursezen U = V = 0 ognak eguhungen uzwephune (k = 0): $V = 720 \text{ km/s} = \frac{720}{3.6} \text{ m/e} = 200 \text{ m/e}$

 $\lambda = \arcsin\left(\frac{4}{v}\sin\epsilon\right) = \arcsin\left(\frac{80}{900}\sin\epsilon\right) = \arcsin\left(\frac{1}{10}\sin\epsilon\right)$

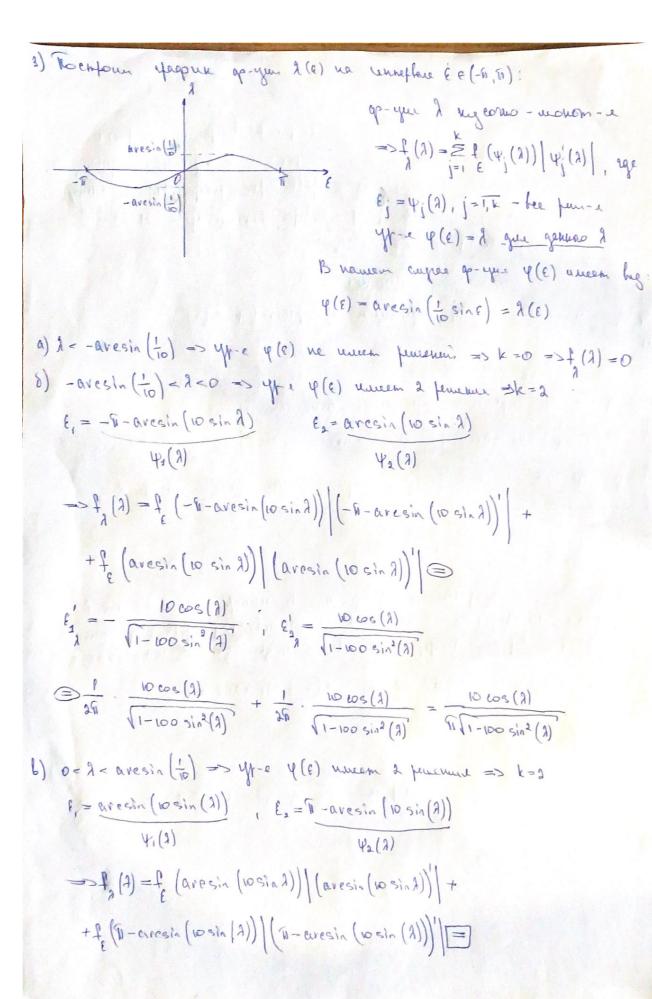
2) Maisque qo-yuso ne-mes percep-e bef-mes your generalme benja E!
P-yur ne-me uneen lug:

[(E) - [C, E \(\ext{Coll}, \varE) \)

 $f(\varepsilon) = \begin{cases} 0, & \varepsilon \notin (-i, i) \end{cases}$, where $\varepsilon = const$

 $\Rightarrow 0 = \frac{1}{2\pi}$

Affective months of the feet of the order



$$f_{2}' = \frac{-10\cos(\lambda)}{\sqrt{1-100\sin^{2}(\lambda)}}$$

1) 1> are sin (10) => 41-2 4(E) " nacem framewin => k=0 => f, (1)=0

4) Umaso:

$$f(\lambda) = \begin{cases} \frac{10\cos(\lambda)}{\pi(1-100\sin^2(\lambda))}, & \lambda \in (-\arcsin(\frac{1}{10}); avesin(\frac{1}{10})) \\ 0, & \lambda \notin (-avesin(\frac{1}{10}); avesin(\frac{1}{10})) \end{cases}$$

Ontem:
$$f_{\lambda}(\lambda) = \begin{cases} \frac{10\cos(\lambda)}{9\sqrt{1-100\sin^2(\lambda)}}, & \text{if } e\left(-\cos(\sin(\frac{1}{10}); \arcsin(\frac{1}{10})\right) \end{cases}$$

3 agera 2 Nahm
$$P(X_2 > 2X_1)$$
, een $(X_1, X_2) \sim N(\overline{m}^2, \Xi)$, ge

$$\overline{m}^2 = (2, 1),$$

$$\Xi = \begin{pmatrix} 1 & -2 \\ -2 & 13 \end{pmatrix}$$

Temener:

1) Uz rolopuzyuonoù manpuzn En 6-pa etegun m?:

$$M[X_1] = 2 \mid M[X_2] = 1$$

$$\mathcal{D}[X_1] = 1$$
, $\mathcal{D}[X_2] = 13$, $cov(X_1, X_2) = 2$

2) Kak uztecho, Ak napaccount en bewone haker abo. nofe.

a)
$$P[X_2 > 2X_1] = P[2X_1 - X_2 < 0] = P[2 = 0]$$

Von uzbecomo, 1k nopuembros en beneros mource eba.

nopularbroi es. femonios, nosmony peccuonfin

$$m_2 = M[2] = M[2X_1 - X_2] = 2M[X_1] - M[X_2] = 2 \cdot 2 - 1 - 3$$

$$G_2^2 = \mathcal{D}[2] = \mathcal{D}[2X_1 - X_2] = 4\mathcal{D}[X_1] + \mathcal{D}[X_2] - 2 \cdot 2 \cdot 1 \cos (X_1, X_2) =$$

=
$$44[x_1] + 3[x_2] - 4 cov(x_1,x_2) = 4.1 + 13 - 4.(-2) = 25$$

$$P\left\{\frac{2}{5} < 0\right\} = P_0\left(\frac{0 - m_2}{6_2}\right) - P_0\left(-\infty\right) = P_0\left(\frac{-3}{5}\right) + \frac{1}{2} =$$