

Bog'lanish qonuniyatlari

Qo'zimatov Mardonbek

Korrelyatsiya bu ikkita o'zgaruvchi (**masalan, x va y**) o'rtasidagi o'zaro bog'liqlik darajasini ifodalovchi statistik tushuncha. Ya'ni, biror o'zgaruvchi qiymati o'zgarganda, ikkinchisi qanday o'zgaradi - buni o'lchash usuli.

Asosiy turlari:

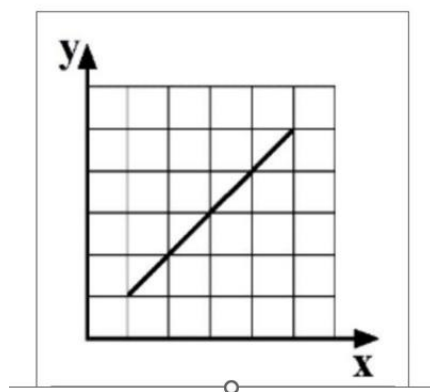
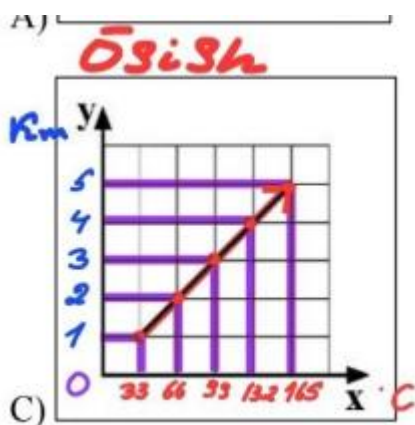
1. Musbat korrelyatsiya: **birinchi o'zgaruvchi ortsa**, **ikkinchisi ham ortadi**.
2. Manfiy korrelyatsiya: **birinchi o'zgaruvchi ortsa**, **ikkinchisi kamayadi**.
3. Nol korrelyatsiya: **o'zgaruvchilar orasida bog'liqlik yo'q**.

Bog'lanish grafigi (Scatter plot)

Bog'lanish grafigi- bu ikkita o'zgaruvchi orasidagi munosabatni vizual ko'rsatadigan grafik bo'lib, har bir nuqta juft (x, y) koordinatalariga ega bo'ladi.

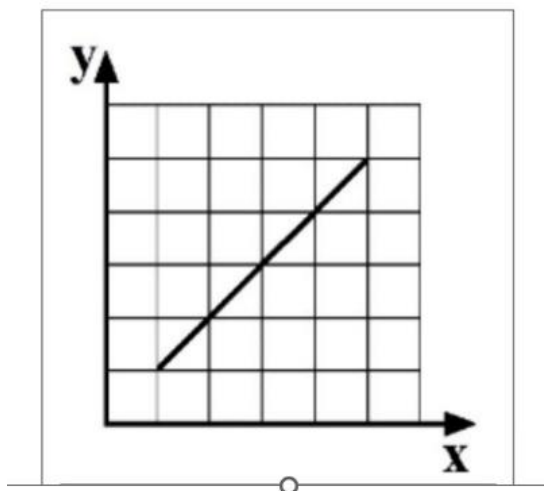
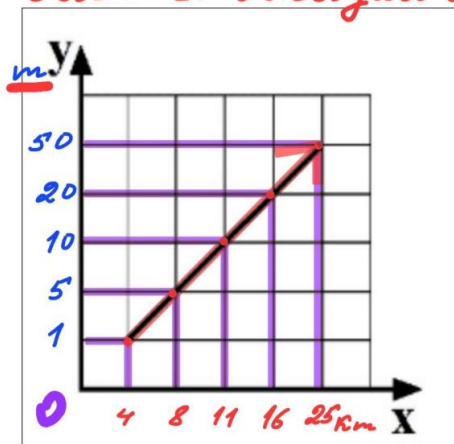
O'sish = *ikkisi ham* **ortadi**.

- 1) Quyidagi grafiklarning qaysi birida yerning **ichki qismidagi harorati (x)** va joyning **chuqurligi (y)** orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan?

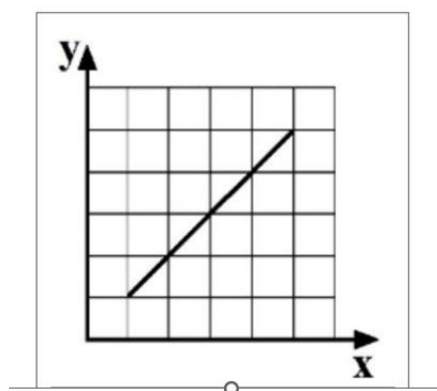


- 2) Quyidagi grafiklarning qaysi birida ufq chegarasining **kengayishi (x)** va **joyning balandligi (y)** orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan?

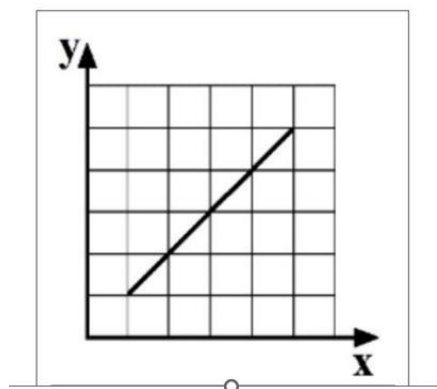
Ösish tendensiyasi ✓



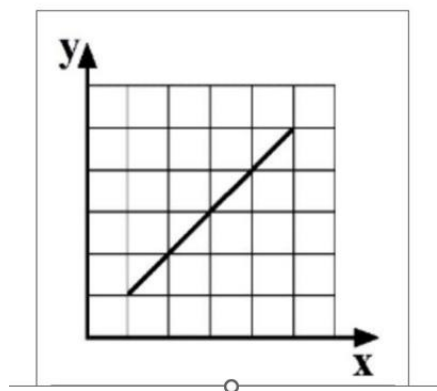
- 3) Quyidagi grafiklarning qaysi birida **quyosh radiatsiyasi (x)** va **joyning balandligi (y)** orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan



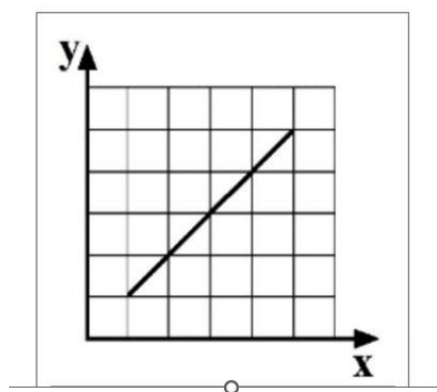
- 4) Quyidagi grafiklarning qaysi birida **havo harorati (x)** va **bugdanish (y)** orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan



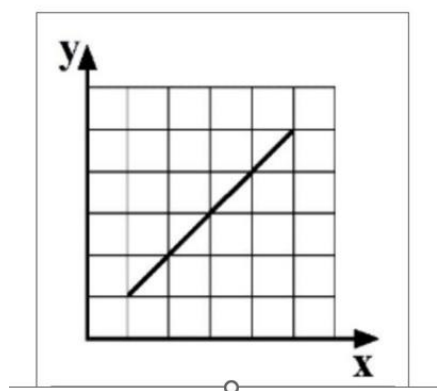
- 5) Quyidagi grafiklarning qaysi birida **shamolning tezligi (x)** va **havo bosimlaridagi farq (y)** orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan?



- 6) Quyidagi grafiklarning qaysi birida **havo tiniqligi (x)** va **joyning balandligi (y)** orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan?



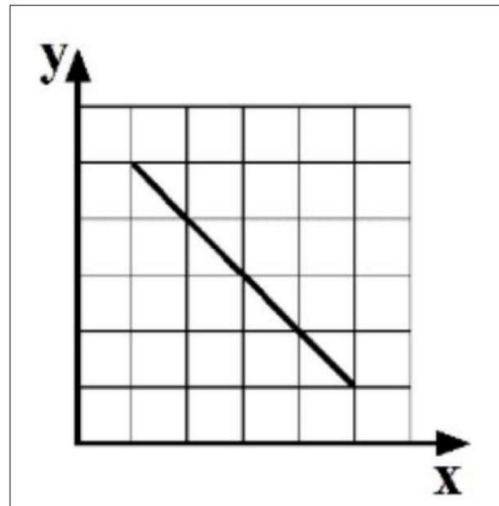
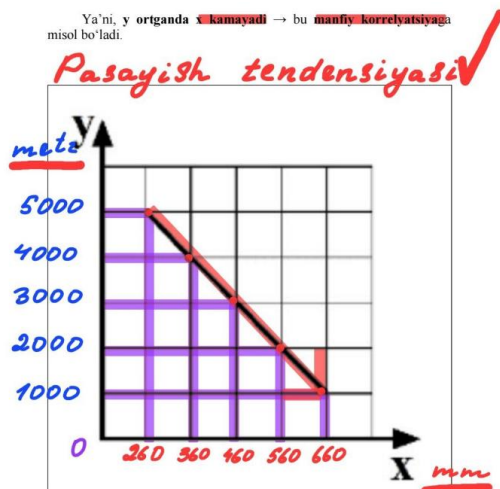
- 7) Quyidagi grafiklarning qaysi birida **havo namligi (x)** va **joyning balandligi (y)** orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan?



Pasayish = *Bittasi* **ortadi** ikkinchisi **pasayadi**

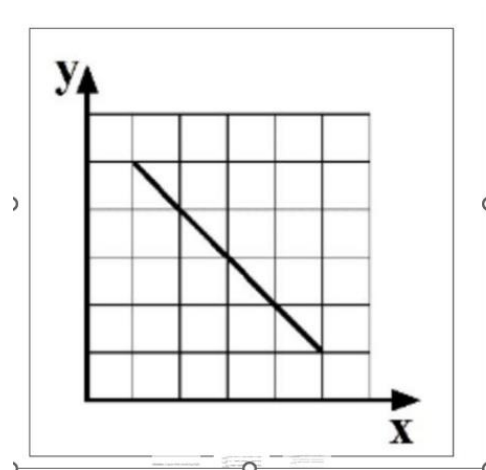
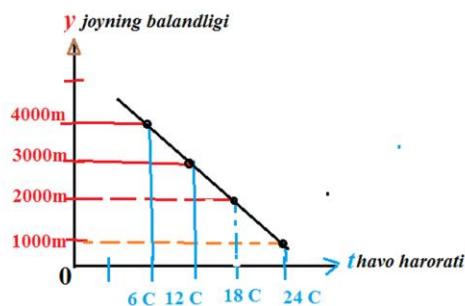
- 1) Quyidagi grafiklarning qaysi birida **havo bosimi (x)** va **joyning balandligi (y)** orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan

Ya'ni, y ortganda x kamayadi → bu manfiy korrelyatsiyaga misol bo'ladi.

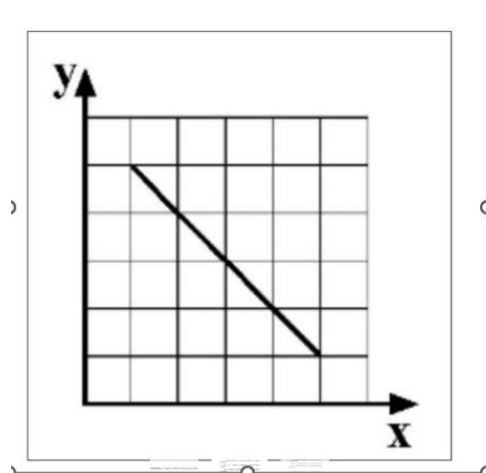
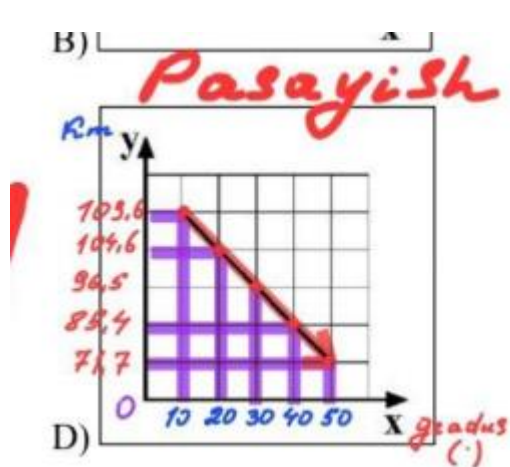


- 2) Quyidagi grafiklarning qaysi birida **havo harorati (t°)** va **joyning balandligi (y)** orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan?

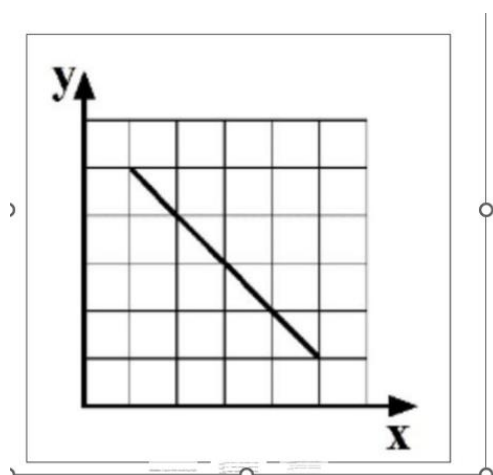
Quyidagi grafiklarning qaysi birida havo harorati (t°) va joyning balandligi (y) orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan?



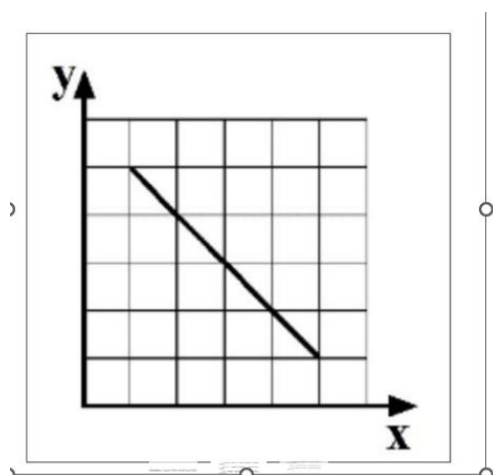
- 3) Quyidagi grafiklarning qaysi birida **parallellarning uzunligi (x)** va **joyning geografik kengligi (y)** orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan?



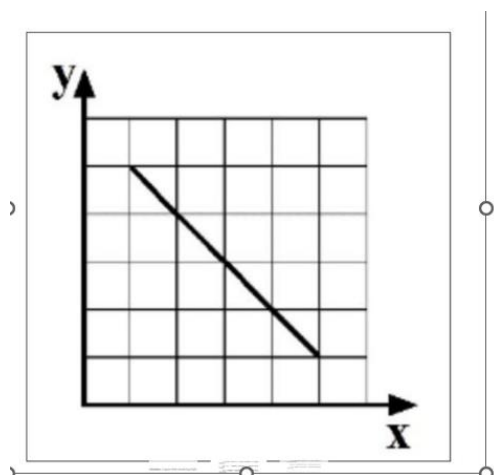
- 4) Quyidagi grafiklarning qaysi birida **yorug'lik (x)** va **okean chuqurligi (y)** orasidagi bogdanish qonuniyati to'g'ri tasvirlangan



- 5) Quyidagi grafiklarning qaysi birida **yog'in-sochin (x)** va **okeandan uzoqlik (v)** orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan

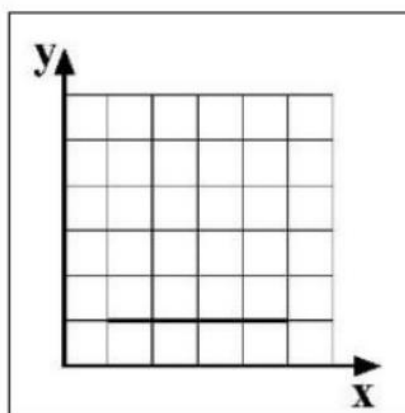
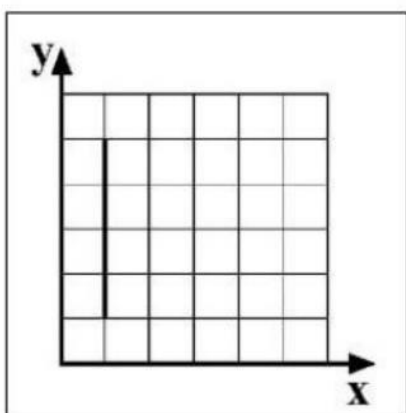


- 6) Quyidagi grafiklarning qaysi birida tog'larda **balandlik mintaqalari soni (x)** va **joyning geografik kengligi (y)** orasidagi bog'lanish qonuniyati to'g'ri tasvirlangan?



O'zgarishsiz NOL u **VERTIKAL** YOKI **GORIZONTAL** bo'ladi

Nol korrelyatsiya: o'zgaruvchilar orasida bog'liqlik yo'q.



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