Вошание задание к уроку 3.

Déser quarence zaprilat iz lastopan bangerierob:
100, 80, 15, 74, 89, 33, 45, 25, 65, 14, 30, 94, 54, 55, 40, 45, 65, 84, 90, 150.

Thornard opeques aprilapenesticaence, apeques chapparaneres
Otheropeure, emergenage a nacineuseringo ogener quantum
gene garener lastopae.

 $\begin{array}{l} (2) \ \overline{X} = (100 + 80 + 15 + 77 + 89 + 33 + 46 + 95 + 65 + 17 + 30 + 94 + 67 + 55 + 70 + 75 + 65 + \\ + 84 + 90 + 150) / 20 = \frac{1306}{20} = 65,3 \end{array}$

 $+\frac{(4-65,3)^2}{20}+\frac{(30-65,3)^2}{20}+\frac{(24-65,3)^2}{20}+\frac{(52-65,3)^2}{20}+\frac{(40-65,3)^2}{20}$

 $+ \frac{(95 - 65,3)^{2}}{20} + \frac{(65 - 65,3)^{2}}{20} + \frac{(84 - 65,3)^{2}}{20} + \frac{(90 - 65,3)^{2}}{20} + \frac{(150 - 65,3)^{2}}{20}$

= 60,2+10,8+4,7+6,8+18+52,16+20,6+81,2+0,005+17,44+116,64+

+ 6d,3 + 73,34 + 3,44 + 1,1 + 4,7 + 0,004 + 14,48 + 20,51 358, 7 = 950, 11

6) $G = \begin{cases} \frac{n}{2} & (20, -\overline{00})^2 \\ \frac{n}{2} & n \end{cases} = \begin{bmatrix} 950, 11 = 30, 82 \end{bmatrix}$

2) Heemergemen znenepeure:

 $G = \sum_{i=1}^{n} \frac{(3e_i - \overline{ae})^2}{n-1} = \frac{(00 - e_{5,3})^2}{19} + \frac{(80 - e_{5,3})^2}{19} + \frac{(75 - e_{5,3})^2}{19} + \frac{(82 - e_{5,3})^2}{19} +$

 $+ \frac{(89-65,3)^{2}}{19} + \frac{(33-66,3)^{2}}{19} + \frac{(45-65,3)^{2}}{19} + \frac{(25-65,3)^{2}}{19} + \frac{(65-65,3)^{2}}{19} + \frac{(44-65,3)^{2}}{19} + \frac{(44-65,3)^{2}}{19} + \frac{(44-65,3)^{2}}{19} + \frac{(40-65,3)^{2}}{19} + \frac{(40-65,3)^{2}}{1$

 $+ \frac{(45 - 65,3)^{2}}{19} + \frac{(65 - 65,3)^{2}}{19} + \frac{(84 - 65,3)^{2}}{19} + \frac{(90 - 65,3)^{2}}{19} + \frac{(50 - 65,3)^{2}}{19} = 1000,12$

01669: Opeque aperque encreonce = 65,3; Cule general guerepoine = 950,11; opeque abogranae vinustance = 30,82;
necuerquinae guenepoine = 1000,12

(2) В первоен мушке нежодинея в ещемий, у поторые 5-бения. Bo Coopen alyune - 12 enered, by not open 5 versee. Us replace ингися выженивано сидианными образова двя висия, щ Оброго-4. Начава вероиность по, что 3 чина више? I degree - 8 eneren Il ceignen - Il senercio 5 Teacher 5 Denoce 3 pe Deune of he Eeuse 4 euress & sensus & emerci 3 Capuansa; $P(A) = \frac{C_5 \cdot C_3^2}{C_8^2} \cdot \frac{C_5 \cdot C_3^2}{C_{12}^2} + \frac{C_5 \cdot C_3^2}{C_8^2} \cdot \frac{C_5 \cdot C_3^2}{C_{12}^2} + \frac{C_5 \cdot C_3^2}{C_{12}^2}$ $+\frac{C_{5} \cdot C_{3}^{\circ}}{C_{8}^{\circ}} \cdot \frac{C_{5}^{\circ} \cdot C_{7}^{3}}{C_{12}^{\circ}} = \frac{10.1}{28} \cdot \frac{5.35}{495} + \frac{5.3}{28} \cdot \frac{10.21}{495} + \frac{5.3}{28} \cdot \frac{10.21}{495}$ $+\frac{1.8}{28} \cdot \frac{10.4}{495} = \frac{1450 + 3150 + 310}{28 \cdot 495} = \frac{540}{13860} \cdot \frac{43}{198} \approx 0,3884$ Orbes: P= 0,3684

(3) B guildeneures us gargettresse A " B roomment palmoe Косичество отудентв, а на фанульте с опудинов поступино estrete me, enouse na An B bourse. Beparences pro, un consect gangereses of coar replyso electro, palmo 0,8. Delle eryseise grangeierese 13 me lepoieracero palme 0,7, a que eryseise grangeierese & -0,9. Cygens essan repligio ceceno. Randa Cepouerness, en on yeurece: a) na iponquerese P, b) un ganguorese B, b) no ganguerese C? O-copies caccuir. P(0/4) = 9,8 A - years no grow se A P(01B) = 0,4 B - years no speak- Te B P(010)=0,9 @ - years nd spar-ie & Mytob ne A noesymuno de remober, me 15 torce de render, un grayelbres @ - 20120 20 + 30 + 1 ge = 1 ge = 1 P(A)= == ; P(B)= == = ; P(C)= == $\frac{p(A|0)}{p(A)} = \frac{p(A) \cdot p(O|A)}{p(A) \cdot p(O|A) + p(B) \cdot p(O|B) + p(C) \cdot p(O|C)}$ $= \frac{\cancel{4} \cdot 0.8}{\cancel{4} \cdot 0.8 + \cancel{4} \cdot 0.12 \cdot \cancel{4} \cdot 0.9} = \frac{\cancel{8}}{33} = 0.2999$ $\frac{p(b) \cdot p(0|b)}{p(p) \cdot p(0|A) + p(b \cdot p(0|B) + p(e) \cdot p(0|e)}$ $= \frac{\cancel{\cancel{4}} \cdot 0,\cancel{\cancel{7}}}{\cancel{\cancel{4}} \cdot 0,\cancel{\cancel{8}} + \cancel{\cancel{4}} \cdot 0,\cancel{\cancel{9}}} = \frac{\cancel{\cancel{\cancel{4}}}}{\cancel{\cancel{3}} \cdot 0,\cancel{\cancel{9}} + \cancel{\cancel{4}}} = 0,\cancel{\cancel{\cancel{9}} \cdot \cancel{\cancel{9}}} = 0,$ B) P(e10) = P(e). P(01e) P(A). P(01A)+P(B). P(01B)+P(e). P(01E) $=\frac{\cancel{\cancel{2}}\cdot 0,9}{\cancel{\cancel{4}}\cdot 0,8 + \cancel{\cancel{4}}\cdot 0,9 + \cancel{\cancel{2}}\cdot 0,9} = \frac{\cancel{\cancel{18}}}{\cancel{\cancel{33}}} = 0,5455$

Orber, e) P(A10)=0,2424; T) P(B10)=0,2121; 6) P(C10)=0,5455 (4) Terroues le coerous y mere gernueur. Deue neplens geraeur bepouraiser bourne y expose 6 replocar energ palma 0,1 gene Coopen -0, 2, gene Merben - 0, 25. Rando Ceponemicoso 1000, 450 6 repleut enlerez bourger ez orpore : 2) boe gestieur, 1) noumo gle geracca, 6) seone du agua genuce; 2) or aguar go glyse geranei? Tyon P/A), P/B), P(C) - Coparmoen Courage y chose genuer Perge P(F), P(B), P(C) - Cepnemoere paroruse gennen. a) P= P/A).P(B).P(C)=0,1.0,2.0,25=0,005 5) P(A). P(B). P(E) + P(A). P(C). P(B) + D(C). P(B). P(A) = = 0,1.0,2.0,75+0,1.0,25.0,8+0,25.0,2.0,9=0,08 6) 1-p(F).p(E).p(E)=1-0,9.0,8.0,75=0,86

1) $1 - P(lee genue paromer) - P(lee genue pe paromer) = 1 - P(F) \cdot P(F$

Orles & P=0,005; T) P=0,08; 6) P=0,48; 2) P=0,455