Ответы на вариант №1

1) 0.058

2) 0.62

3) 3/4

4) Ф(16.85)-Ф(36.45)

5) X= 1 2 3   
 Y= 0.2 0.16 0.64   
 M(x)=2.44 D(x)=0.65 δ(x)=0.8

6) X= 0 1 2 3 4   
 Y= 0.1296 0.3456 0.3456 0.1536 0.0256   
 M(x)=1.6 D(x)=0.96

7) X= 0 1 2 3   
 Y= 0.8847 0.1106 0.0046 6.4e-05   
 M(x)=0.12

8) 0, x≤2;  
 f(x)= 2x/5, 2<x≤3;  
 0, x>3;  
 P(2<X<2,5) = F(2,5)-F(2)=0,45

9) a=0,5  
 0, x<2;  
 F(x) =x²-x-2, 2≤x≤3;  
 1, x>3

10) 0, x≤3;  
 F(x) = 1/8(x²-6x+9), 3<x≤5  
 x/2 - 2, 5<x≤6;  
 1, x>6.  
 P(4≤x≤5,5)=5/8=0,625  
 M(x) = 59/12=4,92 D(x) = 74/3 - (59/12)^2=0,493 σ(x)=0,702

Ответы на вариант №2

1) 1/2

2) 0.09

3) 0.22

4) 0.057

5) X= 250 500 1000 2000   
 Y= 1/2000 1/2000 1/2000 1/2000   
 M(x)=15/8 D(x)=10625/4 δ(x)=51.5

6) X= 0 1 2 3 4   
 Y= 0.6561 0.2916 0.0486 0.0036 0.0001   
 M(x)=0.4 D(x)=0.36

7) X= 0 1 2 3 4   
 Y= 0.0791 0.0264 0.0088 0.0029 0.001   
 M(x)=0.0567

8) 0, x≤0;  
 f(x) = cos(x), 0<x≤π/2;  
 0, x>ᵴ5/2  
 P(0<x<π/6) = F(π/6)-F(0) = 1/2

9) a=1  
 0, x<0;  
 F(x) = (-cos(x)+1)/2, 0≤x≤π/2;  
 1, x>π/2.

10) 0, x≤1;  
 F(x) = 1/3(x²-2x+1), 1<x≤2,5;  
 -x²+6x-8, 2,5<x≤3;  
 1,x>3  
 P(0≤x≤2,5)=3/4  
 M(x) = 13/6=2,167 D(x) = 39/8 - (13/6)^2=13/72=0,181 σ(x)=0,425

Ответы на вариант №3

1) 0.139

2) 0.72

3) 0.75

4) Ф(15.48)-Ф(33.91)

5) X= 1 2 3 4   
 Y= 0.6 0.24 0.1 0.06   
 M(x)=1.62 D(x)=0.8 δ(x)=0.89

6) X= 0 1 2 3 4   
 Y= 0.2401 0.4116 0.2646 0.0756 0.0081   
 M(x)=1.2 D(x)=0.84

7) X= 0 1 2 3   
 Y= 0.8574 0.1354 0.0071 0.000125   
 M(x)=0.15

8) 0, x≤2;  
 f(x)= 2x/5, 2<x≤3;  
 0, x>3;  
 P(2<X<2,5) = F(2,5)-F(2)=0,45

9) a=0,5  
 0, x<2;  
 F(x) =x²-x-2, 2≤x≤3;  
 1, x>3

10) 0, x≤3;  
 F(x) = 1/8(x²-6x+9), 3<x≤5  
 x/2 - 2, 5<x≤6;  
 1, x>6.  
 P(4≤x≤5,5)=5/8=0,625  
 M(x) = 59/12=4,92 D(x) = 74/3 - (59/12)^2=0,493 σ(x)=0,702

Ответы на вариант №4

1) 0.16

2) 0.16

3) 0.43

4) 0.089

5) X= 250 500 1000 2000   
 Y= 1/4000 1/4000 1/4000 1/4000   
 M(x)=15/16 D(x)=10625/8 δ(x)=36.43

6) X= 0 1 2 3 4   
 Y= 0.0625 0.25 0.375 0.25 0.0625   
 M(x)=2.0 D(x)=1.0

7) X= 0 1 2 3 4   
 Y= 0.3164 0.1055 0.0352 0.0117 0.0039   
 M(x)=0.2266

8) 0, x≤0;  
 f(x) = cos(x), 0<x≤π/2;  
 0, x>ᵴ5/2  
 P(0<x<π/6) = F(π/6)-F(0) = 1/2

9) a=1  
 0, x<0;  
 F(x) = (-cos(x)+1)/2, 0≤x≤π/2;  
 1, x>π/2.

10) 0, x≤1;  
 F(x) = 1/3(x²-2x+1), 1<x≤2,5;  
 -x²+6x-8, 2,5<x≤3;  
 1,x>3  
 P(0≤x≤2,5)=3/4  
 M(x) = 13/6=2,167 D(x) = 39/8 - (13/6)^2=13/72=0,181 σ(x)=0,425

Ответы на вариант №5

1) 1/20

2) 0.35

3) 0.56

4) Ф(7.5)-Ф(20.0)

5) X= 1 2 3 4   
 Y= 0.3 0.21 0.15 0.34   
 M(x)=2.53 D(x)=1.53 δ(x)=1.24

6) X= 0 1 2 3 4   
 Y= 0.6561 0.2916 0.0486 0.0036 0.0001   
 M(x)=0.4 D(x)=0.36

7) X= 0 1 2 3   
 Y= 0.9127 0.0847 0.0026 2.7e-05   
 M(x)=0.09

8) 0, x≤2;  
 f(x)= 2x/5, 2<x≤3;  
 0, x>3;  
 P(2<X<2,5) = F(2,5)-F(2)=0,45

9) a=0,5  
 0, x<2;  
 F(x) =x²-x-2, 2≤x≤3;  
 1, x>3

10) 0, x≤3;  
 F(x) = 1/8(x²-6x+9), 3<x≤5  
 x/2 - 2, 5<x≤6;  
 1, x>6.  
 P(4≤x≤5,5)=5/8=0,625  
 M(x) = 59/12=4,92 D(x) = 74/3 - (59/12)^2=0,493 σ(x)=0,702

Ответы на вариант №6

1) 1/2

2) 0.16

3) 0.26

4) 0.134

5) X= 250 500 1000 2000   
 Y= 1/2000 1/2000 1/2000 1/2000   
 M(x)=15/8 D(x)=10625/4 δ(x)=51.5

6) X= 0 1 2 3 4   
 Y= 0.6561 0.2916 0.0486 0.0036 0.0001   
 M(x)=0.4 D(x)=0.36

7) X= 0 1 2 3 4   
 Y= 0.3164 0.1055 0.0352 0.0117 0.0039   
 M(x)=0.2266

8) 0, x≤0;  
 f(x) = cos(x), 0<x≤π/2;  
 0, x>ᵴ5/2  
 P(0<x<π/6) = F(π/6)-F(0) = 1/2

9) a=1  
 0, x<0;  
 F(x) = (-cos(x)+1)/2, 0≤x≤π/2;  
 1, x>π/2.

10) 0, x≤1;  
 F(x) = 1/3(x²-2x+1), 1<x≤2,5;  
 -x²+6x-8, 2,5<x≤3;  
 1,x>3  
 P(0≤x≤2,5)=3/4  
 M(x) = 13/6=2,167 D(x) = 39/8 - (13/6)^2=13/72=0,181 σ(x)=0,425

Ответы на вариант №7

1) 0.058

2) 0.305

3) 1/2

4) Ф(7.5)-Ф(20.0)

5) X= 1 2 3   
 Y= 0.6 0.24 0.16   
 M(x)=1.56 D(x)=0.57 δ(x)=0.75

6) X= 0 1 2 3 4   
 Y= 0.2401 0.4116 0.2646 0.0756 0.0081   
 M(x)=1.2 D(x)=0.84

7) X= 0 1 2 3   
 Y= 0.7536 0.2236 0.0221 0.000729   
 M(x)=0.27

8) 0, x≤2;  
 f(x)= 2x/5, 2<x≤3;  
 0, x>3;  
 P(2<X<2,5) = F(2,5)-F(2)=0,45

9) a=0,5  
 0, x<2;  
 F(x) =x²-x-2, 2≤x≤3;  
 1, x>3

10) 0, x≤3;  
 F(x) = 1/8(x²-6x+9), 3<x≤5  
 x/2 - 2, 5<x≤6;  
 1, x>6.  
 P(4≤x≤5,5)=5/8=0,625  
 M(x) = 59/12=4,92 D(x) = 74/3 - (59/12)^2=0,493 σ(x)=0,702

Ответы на вариант №8

1) 1/2

2) 0.31

3) 0.26

4) 0.18

5) X= 250 500 1000 2000   
 Y= 1/2000 1/2000 1/2000 1/2000   
 M(x)=15/8 D(x)=10625/4 δ(x)=51.5

6) X= 0 1 2 3 4   
 Y= 0.6561 0.2916 0.0486 0.0036 0.0001   
 M(x)=0.4 D(x)=0.36

7) X= 0 1 2 3 4   
 Y= 0.0791 0.0264 0.0088 0.0029 0.001   
 M(x)=0.0567

8) 0, x≤0;  
 f(x) = cos(x), 0<x≤π/2;  
 0, x>ᵴ5/2  
 P(0<x<π/6) = F(π/6)-F(0) = 1/2

9) a=1  
 0, x<0;  
 F(x) = (-cos(x)+1)/2, 0≤x≤π/2;  
 1, x>π/2.

10) 0, x≤1;  
 F(x) = 1/3(x²-2x+1), 1<x≤2,5;  
 -x²+6x-8, 2,5<x≤3;  
 1,x>3  
 P(0≤x≤2,5)=3/4  
 M(x) = 13/6=2,167 D(x) = 39/8 - (13/6)^2=13/72=0,181 σ(x)=0,425

Ответы на вариант №9

1) 0.9

2) 0.18

3) 3/5

4) Ф(8.79)-Ф(22.1)

5) X= 1 2 3   
 Y= 0.4 0.24 0.36   
 M(x)=1.96 D(x)=0.76 δ(x)=0.87

6) X= 0 1 2 3 4   
 Y= 0.2401 0.4116 0.2646 0.0756 0.0081   
 M(x)=1.2 D(x)=0.84

7) X= 0 1 2 3   
 Y= 0.8306 0.159 0.0102 0.000216   
 M(x)=0.18

8) 0, x≤2;  
 f(x)= 2x/5, 2<x≤3;  
 0, x>3;  
 P(2<X<2,5) = F(2,5)-F(2)=0,45

9) a=0,5  
 0, x<2;  
 F(x) =x²-x-2, 2≤x≤3;  
 1, x>3

10) 0, x≤3;  
 F(x) = 1/8(x²-6x+9), 3<x≤5  
 x/2 - 2, 5<x≤6;  
 1, x>6.  
 P(4≤x≤5,5)=5/8=0,625  
 M(x) = 59/12=4,92 D(x) = 74/3 - (59/12)^2=0,493 σ(x)=0,702

Ответы на вариант №10

1) 0.16

2) 0.32

3) 0.23

4) 0.1699

5) X= 250 500 1000 2000   
 Y= 1/1000 1/1000 1/1000 1/1000   
 M(x)=15/4 D(x)=10625/2 δ(x)=72.79

6) X= 0 1 2 3 4   
 Y= 0.0625 0.25 0.375 0.25 0.0625   
 M(x)=2.0 D(x)=1.0

7) X= 0 1 2 3 4   
 Y= 0.0791 0.0264 0.0088 0.0029 0.001   
 M(x)=0.0567

8) 0, x≤0;  
 f(x) = cos(x), 0<x≤π/2;  
 0, x>ᵴ5/2  
 P(0<x<π/6) = F(π/6)-F(0) = 1/2

9) a=1  
 0, x<0;  
 F(x) = (-cos(x)+1)/2, 0≤x≤π/2;  
 1, x>π/2.

10) 0, x≤1;  
 F(x) = 1/3(x²-2x+1), 1<x≤2,5;  
 -x²+6x-8, 2,5<x≤3;  
 1,x>3  
 P(0≤x≤2,5)=3/4  
 M(x) = 13/6=2,167 D(x) = 39/8 - (13/6)^2=13/72=0,181 σ(x)=0,425

Ответы на вариант №11

1) 0.4

2) 0.236

3) 0.06

4) 0.195

5) X= 1 2 3 4   
 Y= 0.2 0.16 0.13 0.51   
 M(x)=2.95 D(x)=1.47 δ(x)=1.21

6) X= 0 1 2 3 4   
 Y= 0.4096 0.4096 0.1536 0.0256 0.0016   
 M(x)=0.8 D(x)=0.64

7) X= 0 1 2 3   
 Y= 0.7787 0.2031 0.0177 0.000512   
 M(x)=0.24

8) 0, x≤2;  
 f(x)= 2x/5, 2<x≤3;  
 0, x>3;  
 P(2<X<2,5) = F(2,5)-F(2)=0,45

9) a=0,5  
 0, x<2;  
 F(x) =x²-x-2, 2≤x≤3;  
 1, x>3

10) 0, x≤3;  
 F(x) = 1/8(x²-6x+9), 3<x≤5  
 x/2 - 2, 5<x≤6;  
 1, x>6.  
 P(4≤x≤5,5)=5/8=0,625  
 M(x) = 59/12=4,92 D(x) = 74/3 - (59/12)^2=0,493 σ(x)=0,702

Ответы на вариант №12

1) 0.09

2) 0.0

3) 0.53

4) 0.2866

5) X= 250 500 1000 2000   
 Y= 1/1000 1/1000 1/1000 1/1000   
 M(x)=15/4 D(x)=10625/2 δ(x)=72.79

6) X= 0 1 2 3 4   
 Y= 0.0016 0.0256 0.1536 0.4096 0.4096   
 M(x)=3.2 D(x)=0.64

7) X= 0 1 2 3 4   
 Y= 0.3164 0.1055 0.0352 0.0117 0.0039   
 M(x)=0.2266

8) 0, x≤0;  
 f(x) = cos(x), 0<x≤π/2;  
 0, x>ᵴ5/2  
 P(0<x<π/6) = F(π/6)-F(0) = 1/2

9) a=1  
 0, x<0;  
 F(x) = (-cos(x)+1)/2, 0≤x≤π/2;  
 1, x>π/2.

10) 0, x≤1;  
 F(x) = 1/3(x²-2x+1), 1<x≤2,5;  
 -x²+6x-8, 2,5<x≤3;  
 1,x>3  
 P(0≤x≤2,5)=3/4  
 M(x) = 13/6=2,167 D(x) = 39/8 - (13/6)^2=13/72=0,181 σ(x)=0,425

Ответы на вариант №13

1) 1/20

2) 0.58

3) 1/2

4) 0.147

5) X= 1 2 3 4   
 Y= 0.2 0.16 0.13 0.51   
 M(x)=2.95 D(x)=1.47 δ(x)=1.21

6) X= 0 1 2 3 4   
 Y= 0.4096 0.4096 0.1536 0.0256 0.0016   
 M(x)=0.8 D(x)=0.64

7) X= 0 1 2 3   
 Y= 0.9412 0.0576 0.0012 8e-06   
 M(x)=0.06

8) 0, x≤2;  
 f(x)= 2x/5, 2<x≤3;  
 0, x>3;  
 P(2<X<2,5) = F(2,5)-F(2)=0,45

9) a=0,5  
 0, x<2;  
 F(x) =x²-x-2, 2≤x≤3;  
 1, x>3

10) 0, x≤3;  
 F(x) = 1/8(x²-6x+9), 3<x≤5  
 x/2 - 2, 5<x≤6;  
 1, x>6.  
 P(4≤x≤5,5)=5/8=0,625  
 M(x) = 59/12=4,92 D(x) = 74/3 - (59/12)^2=0,493 σ(x)=0,702

Ответы на вариант №14

1) 1/4080

2) 0.16

3) 0.25

4) 0.224

5) X= 250 500 1000 2000   
 Y= 1/1000 1/1000 1/1000 1/1000   
 M(x)=15/4 D(x)=10625/2 δ(x)=72.79

6) X= 0 1 2 3 4   
 Y= 0.1296 0.3456 0.3456 0.1536 0.0256   
 M(x)=1.6 D(x)=0.96

7) X= 0 1 2 3 4   
 Y= 0.0264 0.0088 0.0029 0.001 0.0003   
 M(x)=0.0188

8) 0, x≤0;  
 f(x) = cos(x), 0<x≤π/2;  
 0, x>ᵴ5/2  
 P(0<x<π/6) = F(π/6)-F(0) = 1/2

9) a=1  
 0, x<0;  
 F(x) = (-cos(x)+1)/2, 0≤x≤π/2;  
 1, x>π/2.

10) 0, x≤1;  
 F(x) = 1/3(x²-2x+1), 1<x≤2,5;  
 -x²+6x-8, 2,5<x≤3;  
 1,x>3  
 P(0≤x≤2,5)=3/4  
 M(x) = 13/6=2,167 D(x) = 39/8 - (13/6)^2=13/72=0,181 σ(x)=0,425