Mustaqil ishlash uchun variantlar:

$$Y=\begin{cases}\dfrac{sin^3 ax^2}{\sqrt{x^2+1}} & \text{agar } x<q,\\ \dfrac{\cos(ax)+e^{-ax^3}}{\sqrt[3]{x^2}\,arctgx} & \text{agar } x\geq q,\end{cases}$$

1-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}a^3x+\cos(x+1)^2 & x>2\\ e^{x+1}-\sin^2 x & 1\le x\le 2\\ \log_3 x-2^{\sin^2 x} & x<1\end{cases}$$

bu yerda a=4; $x=0{,}2$

2-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}ax^{tgx}+\log_4^5(x+1) & x>2\\ a^{x+1} & 1\le x\le 2\\ x\sin^7 x-2|\cos x| & x<1\end{cases}$$

bu yerda $a=1.2$ $x=0{,}2$

3-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}a^6\sqrt[4]{x}\lg x & x>2\\ 3^{ax^3+1} & 1\le x\le 2\\ x^4-2\sqrt[4]{x^5} & x<1\end{cases}$$

bu yerda $a=1.2$ $x=0{,}1$

4-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}\sqrt[3]{a}\cdot x+1 & x>2\\ 5^{x+1} & 0\le x\le 2\\ (x+2)^x-2 & x<0\end{cases}$$

by yerda $x=0{,}3$

5-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}\sqrt[3]{a}\cdot 8^{x}+1 & x>2\\ e^{x+1} & 0\le x\le 2\\ \lg x+\sqrt{2} & x<0\end{cases}$$

bu yerda $a=2.2$ $x=0,2$

6-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}x^{\lg x}+\cos^{2}x & x>4\\ 3^{x+1}-arctg(x+1)^{3} & x=4\\ |x|-2^{\ln x} & x<4\end{cases}$$

bu yerda $a=1.2$ $x=7$

7-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}a\sqrt[5]{x}+arctg^{2}x & x>4\\ \sqrt{x^{3}-2} & x<4\end{cases}$$

bu yerda $a=1.2$ $x=0,3$

8-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}\lg(ax^{\sin x})+tg^{2}x & x>5\\ a^{x+1} & 1\le x\le 5\\ x^{2}-2\cos x^{4} & x<1\end{cases}$$

bu yerda $a=1.2$ $x=0.1$

9-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}\sqrt[5]{\sin a\cdot x^4}+\log_4^5 x & x>2\\ 3^{x+1} & 1\le x\le 2\\ \left|x^4-tg2\right| & x<1\end{cases}$$

bu yerda x = 0.1

10-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}arctg\left(4^x-1\right) & x>2\\ a^{x+1}-\lg^3(x+1) & x=2\\ x^3-2\sqrt[5]{x} & x<2\end{cases}$$

bu yerda a=2; $x = 0,1$

11-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}\sqrt[3]{x^{\sin x}-4} & x>3\\ a^{\lg^2 x} & x=3\\ x^{arctgx} & x<3\end{cases}$$

bu yerda *a=3;* $x = 0,2$

12-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}x^{\log_2 x}-4 & x>4\\ e^x & x=4\\ \ln^2 x^3 & x<4\end{cases}$$

bu yerda *a=2,* $x = 0,4$

13-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}\sqrt[4]{x}-4^{x} & x>3\\ a^{x+tgx} & x=3\\ \sqrt[5]{\lg|x|} & x<3\end{cases}$$

bu yerda $a=1,\ x=0{,}4$

14-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}x^{\log_2 x}+4 & x>3\\ e^{4^{x}} & x=3\\ arctg^{2}|x-a| & x<3\end{cases}$$

bu yerda $a=1,\ x=0{,}2$

15-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}\sin^{3}x-4 & x>1\\ a^{x} & x=1\\ \sqrt[3]{x^{5}}+\ln^{2}x & x<1\end{cases}$$

bu yerda $a=1,\ x=0{,}1$

16-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}tg^{2}x^{4} & x>3\\ \sqrt{2^{x}} & x=3\\ x^{e^{x}} & x<3\end{cases}$$

bu yerda $x=3$.

17-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}\lg^2 x^3-4 & x>5\\ \sqrt[5]{4^x} & x=5\\ x^{\cos x}+5 & x<5\end{cases}$$

bu yerda $x=2$

18-variant

Quyidagi misolga dastur tuzing:

1.
$$z=\begin{cases}x\sqrt[4]{\sin x}+4 & x>3\\ 2^{x+tgx} & x=3\\ x^{\log_2 x}-2 & x<3\end{cases}$$

bu yerda $x=2$

19-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}\sqrt[3]{ax^2+1} & x>5\\ e^{\sin^2 x+1} & 1\le x\le 5\\ arctg(\lg(x-2)) & x<1\end{cases}$$

bu yerda $a=1.2 \quad x=1$

20-variant

Quyidagi misolga dastur tuzing:

$$z=\begin{cases}a^3x+7^3 & x>5\\ \sqrt[34]{e^{|x|}} & x\le 5\end{cases}$$

bu yerda $a=1.2 \quad x=4$