```
9p-42
                                                   hedeb.

\begin{cases}
5(x) & 2(g(x))^{2} \\
g(x) & 0 \\
g(x) & 60
\end{cases}

   Vf(x) 2 g(x)
                                                     L=7
                                                                                                               5(1) >0
   \log_{5(x)} g^{(x)} < \log_{5(x)} h^{(x)} \stackrel{(=)}{\leftarrow} \frac{1}{3} (x) > 0
(f(x) - 1)(g^{(x)} - h^{(x)}) > 0

\begin{cases}
2x^{2}-7x>0 & [x \in (-\infty; 2) \cup (9; +\infty) \\
2|x-y|>1 & [x \in (-\infty; 0) \cup (\frac{\pi}{2}; +\infty)]
\end{cases}

\begin{cases}
0 < |x-y| \le 1 \\
2x^{2}-4x < 0
\end{cases}

\begin{cases}
x \in (-\infty; 2) \cup (9; +\infty) \\
x \in (-\infty; 0) \cup (\frac{\pi}{2}; +\infty)
\end{cases}

2.) log_X \left( \frac{4x+5}{6-5x} \right) < -1
0g_S: \frac{x}{x} > 0
x \neq 1
6-5x \neq 0
x \neq \frac{x}{5}
\frac{4x+5}{6-5x} > 0
x \in \left( -\frac{5}{5}; \frac{6}{5} \right)
x \in \left( -\frac{5}{5}; \frac{6}{5} \right)
```

$$\begin{cases} \frac{4x+r}{6-5x} - \frac{1}{x} \right) < Cos_{x} \frac{1}{x} \\ \frac{4x+r}{6-5x} - \frac{1}{x} \right) \cdot (x-1) > 0 \\ \times G(\frac{1}{x};L) \\$$

```
1) COS X COSIX COSIX COSIX = 1 COSISX ). Sinx
1 (2.5; nx cosx) - cos 2x - cos 4x - cos 9x = f cos 15x · 5; 0x
1 1 (S:02 A · COS 2 A) · COS 4 X · COS 9 A = 1 COS 15 X · Sigh
 4 · Sin 7x · cos4x cos 9x = f cos15x · Sinx
                                                                              sind.cosp = \frac{1}{2} (sin(470) - sin(d-15))
\frac{1}{16} \sin 6x = \frac{1}{2} \cos 5x \cdot \sin x
\begin{cases} Sin(6x) = 2 \cos(5x \cdot \sin x) \\ Sin x \neq 0 \end{cases}
  (in (16x) - Sin (16x) + Sin 14x = 0
  \begin{cases} \sin(i\pi x) = 0 & \begin{cases} x = \frac{Rn}{15} \\ \sin x \neq 0 \end{cases} & n \in \mathbb{Z} \end{cases}
                                \partial: \quad \chi = \frac{\pi n}{19} \quad , \quad n \neq 19 
                                                   2,6 6 7
 D-60:
                                                                                  Sin(d+B) = Sind COS A + Sing COEX
                                                                                 Sin (a-p) = Sind cosps - sinp cosd
Sin (L+B) - Sin (L-B) = Sin L/cosp + Sinp cost - (sind/cosp - Sinp cost) = 2 Sin p cost
      Sin (L+B) - Sin (L-B) = 2 Sind casps
```







