

1.60

LICHAŁ EXERC 6/

$$\log_x 4 \cdot \log_2 \frac{5-12x}{12x-8} \geq 2$$

$$\cancel{2} \log_x 2 \cdot \log_2 \frac{5-12x}{12x-8} \geq \cancel{2}$$

$$\frac{\log_2 2}{\log_x 2} \cdot \frac{\log_2 \frac{5-12x}{12x-8}}{\log_2 2} \geq 1$$

$$\log_x \frac{5-12x}{12x-8} \geq 1$$

$$\frac{5-12x}{12x-8} \geq x$$

$$\frac{5-12x-12x^2+8x}{12x-8} \geq 0$$

$$0 \leq \frac{-12x^2-4x+5}{12x-8} = \frac{(-6x-5)(2x-1)}{12x-8}$$

$\phi$   $x > 1$  plim  $x < -\frac{5}{6}$   $\vee$   $\frac{1}{2} < x < \frac{2}{3}$

$$\log_x \frac{5-12x}{12x-8} \geq 1$$

$0 < x < 1$  plim

$$x \geq \frac{5-12x}{12x-8} \rightarrow \frac{5-12x-12x^2+8x}{12x-8} \leq 0$$

plim  $\frac{5}{12} < x < \frac{1}{2}$   $\vee$   $-\frac{5}{6} < x < \frac{1}{2}$   $\vee$   $x > \frac{2}{3}$

znajdz plim  
 $1 \neq x > 0$   
 $x \neq \frac{2}{3}$

$$0 < \frac{5-12x}{12x-8} < 1 \Rightarrow \frac{5}{12} < x < \frac{2}{3}$$

$x > 1$  plim

$$x < -\frac{5}{6} \vee \frac{1}{2} < x < \frac{2}{3}$$

$$-\frac{5}{6} < x < \frac{1}{2} \vee x > \frac{2}{3}$$

