

1.74
3

$$\left(\frac{9}{4}\right) \log_2(x^2-3x-10) > \left(\frac{2}{3}\right) \log_{\frac{1}{2}}(x^2+4x+4)$$

$$x < -2 \text{ ו/ו } x > 5 \leftarrow x^2-3x-10 > 0 \text{ תנאי ההגדרה}$$

$$x \neq -2 \leftarrow x^2+4x+4 > 0$$

$$\left(\frac{3}{2}\right) 2 \log_2(x^2-3x-10) > \left(\frac{3}{2}\right) - \log_{\frac{1}{2}}(x^2+4x+4)$$

$$2 \log_2(x^2-3x-10) > -\log_{\frac{1}{2}}(x^2+4x+4)$$

$$(x^2-3x-10)^2 > x^2+4x+4$$

$$(x+2)^2(x-5)^2 > (x+2)^2$$

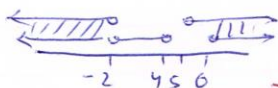
$$(x+2)^2[(x-5)^2-1]$$

$$x = -2$$

$$x = 6, 4$$

$$\begin{array}{c} + \quad + \\ -2 \quad 4 \quad -6 \end{array}$$

$$x < -2, \quad 2 < x < 4, \quad x > 6$$



תנאי ההגדרה

$$x < -2 \text{ ו/ו } x > 6$$