

1.58
2

$$\begin{cases} 3 \cdot \left(\frac{2}{3}\right)^{2x-y} + 7 \left(\frac{2}{3}\right)^{\frac{2x-y}{2}} - 6 = 0 \\ \log(3x-y) + \log(x+y) - 4 \log 2 = 0 \end{cases}$$

$$\left(\frac{2}{3}\right)^{\frac{2x-y}{2}} = t \quad \text{: } t \text{ זרעו החדש}$$

$$3t^2 + 7t - 6 = 0$$

$$t = -3 \rightarrow \left(\frac{2}{3}\right)^{\frac{2x-y}{2}} = -\frac{2}{3} \rightarrow \emptyset$$

$$t = \frac{2}{3} \rightarrow \left(\frac{2}{3}\right)^{\frac{2x-y}{2}} = \left(\frac{2}{3}\right)^1 \rightarrow \frac{2x-y}{2} = 1$$

$$\begin{aligned} 2x-y &= 2 \\ \boxed{y} &= \boxed{2x-2} \end{aligned}$$

: זרעו החדש

$$\log\left(\frac{(3x-y)(x+y)}{2^4}\right) = 0$$

$$\frac{(3x-y)(x+y)}{16} = 1$$

$$16 = (3x-y)(x+y) = (3x-2x+2)(2x-2+x) = (x+2)(3x-2)$$

\downarrow
2,3
 $y = 2x-2$

$$16 = 3x^2 + 4x - 4$$

$$0 = 3x^2 + 4x - 20$$

~~$$x = \frac{-10}{3} \rightarrow y = \frac{-26}{3}$$~~

$$x = 2 \rightarrow y = 2$$

(2,2)

במקום של
16? 16