

$$\frac{1,5/1}{1} \quad \left\{ \begin{array}{l} \log_5(5+2x) \cdot \log_5(1+4y) - \log_5(3x-2y+7) = 2 \\ \sqrt{y^2-2x} = y-x \end{array} \right.$$

$$y^2 - 2x = y^2 - 2yx + x^2$$

$$x^2(x+2-2y) = 0$$

$$\downarrow \quad \downarrow$$

$$x=0 \quad x=-2+2y$$

: x=0 תוצאות הריבועים > 2/3

$$\log_5 5 \cdot \log_5(1+4y) - \log_5(7-2y) = 2$$

$$\log_5(1+4y) - \log_5(7-2y) = 2$$

$$\log_5\left(\frac{1+4y}{7-2y}\right) = 2$$

$$\frac{1+4y}{7-2y} = 25 \rightarrow 1+4y = 175 - 50y$$

$$54y = 174$$

$$y = \frac{174}{54} = \frac{29}{9} \quad \left(0, \frac{29}{9}\right)$$

: x=-2+2y תוצאות הריבועים > 2/3

$$\log_5(5-4+4y) \cdot \log_5(1+4y) - \log_5(-6+6y-2y+7) = 2$$

$$\log_5^2(1+4y) - \log_5(1+4y) = 2$$

$$A^2 - A - 2 = 0$$

$$A=2 \rightarrow \log_5(1+4y) = 2 \rightarrow 1+4y = 25 \rightarrow y=6 \rightarrow x=10$$

$$A=-1 \rightarrow \log_5(1+4y) = -1 \rightarrow 1+4y = \frac{1}{5} \rightarrow y = -\frac{1}{5} \rightarrow x = -2\frac{2}{5}$$

תוצאות הריבועים
 $(10, 6)$
 $(-2\frac{2}{5}, -\frac{1}{5})$