

3.92
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$y = mx + n$
 $\sqrt{12.5} = \frac{1-n}{\sqrt{1+m^2}} \rightarrow \sqrt{12.5 + 12.5m^2 = n^2} \quad (*)$
 $\therefore (\Delta=0)$

$$2x^2 + 3(mx+n)^2 = 30$$

$$x^2(2+3m^2) + 6mnx + 3n^2 - 30 = 0$$

$$0 = \Delta = 36m^2n^2 - 4(2+3m^2)(3n^2-30) = -24n^2 + 240 + 360m^2 \quad /: (-24)$$

$$0 = n^2 - 10 + 5m^2$$

$$0 = 12.5 + 12.5 \left(\frac{n^2 - 10}{5} \right) = n^2$$

$$0 = 12.5 + \frac{5n^2}{6} - \frac{50m}{6} = n^2$$

$$\frac{1}{6}n^2 = \frac{25}{6} \rightarrow n = \pm 5$$

$$m = \pm 1 \leftarrow 25 = 12.5(1+m^2) \text{ פתור } n = 5 \text{ ו } n = -5$$

$$y = x + 5$$

$$y = -x + 5$$

$$m = \pm 1$$

$$25 = 12.5(1+m^2) \text{ פתור } n = -5 \text{ ו } n = 5$$

$$y = x - 5$$

$$y = -x - 5$$