

4.22
3

$$p\left(\frac{1}{2}\right) = 0 \quad , \quad p(-1) = 0 \quad \text{ע"ש}$$

$$0 = p(-1) = (a+b+1) + 2b - (a-b) + a = a + 4b + 1$$

$$0 = p\left(\frac{1}{2}\right) = \frac{1}{16}(a+b+1) - \frac{1}{8} \cdot 2b - (a-b) \frac{1}{4} + a = \frac{13}{16}a + \frac{1}{16}b + \frac{1}{16} \rightarrow 13a + b + 1 = 0$$

$$a = -4b - 1 \quad \text{התחלתי את } a \text{ ב-} (-4b-1)$$

$$0 = 13(-4b-1) + b + 1$$

התחלתי את } ב-} (-4b-1)

$$51b = -12 \rightarrow$$

$$\boxed{\begin{aligned} b &= \frac{-12}{51} = \frac{-4}{17} \\ a &= -\frac{1}{17} \end{aligned}}$$