Theo 3 And Brade 07.05.2024 Autyale!

1: 2: Phermitisch (P=Pt) $\hat{f} \hat{f}/x > = \hat{f}/-x > \langle \mathcal{A}x/\mathcal{A}x \rangle$ $= \langle \hat{f}, \hat{f}, \hat{f}, \hat{f}, \rangle = \langle x/\hat{f}, x \rangle$ $= \langle \hat{f}, \hat{f}, \hat{f}, \hat{f}, \hat{f}, \rangle$ $= \langle \hat{f}, \hat{$

2.; E: (4(x) =) 4(x) wit) = : 1 (P. P" = unidar => /X = 1) / A & IR

= >) = 11

=> \(\(\) = \(\) \(\

=) $\iint_{\mathbb{R}} \hat{p}_{n}(x) = \hat{f} \hat{H} \hat{q}_{n}(x)$ $\hat{H} \hat{q}_{n}(-x) = \hat{f} \in_{\mathbb{R}} \hat{q}_{n}(x)$ = $\frac{1}{2} C_{n} \hat{q}_{n}(x)$

 $\phi_n(-x) = \pm \phi_n(x)$ sind tigar beneation can A mit $\int c$ enquals: $\phi_n(-x) = \phi_n(x)$

(grape: \$1(x) = -\$1(x)