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ALHA4000

Pg 5

12:30

$$c) \quad w = \begin{pmatrix} 2 & 4x & -5 \\ 4 & x & 0 \\ 1 & (x+1) & 3 \end{pmatrix}$$

$$|w| = 2$$

$$|w| = 2(3x - 0) - 4x(12 - 0) + (-5)((4x+1) - x)$$

$$2 = 6x - 48x - 15x - 20$$

$$+ 57x = -22$$

$$\boxed{x = \frac{-22}{57}}$$

