

EXAM MLC QUESTIONS OF THE WEEK

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Week of July 16/07

Which of the following is equal to the expression

$$(e_x - e_{x+1}) - (\overset{\circ}{e}_x - \overset{\circ}{e}_{x+1})$$

under the assumption of UDD?

- A) p_x B) q_x C) 0 D) $-p_x$ E) $-q_x$

The solution can be found below.

Week of July 16/07 - Solution

$$\begin{aligned} & (e_x - e_{x+1}) - (\overset{\circ}{e}_x - \overset{\circ}{e}_{x+1}) \\ &= e_x - \overset{\circ}{e}_x - (e_{x+1} - \overset{\circ}{e}_{x+1}) \\ &= e_x - [e_x + \frac{1}{2}] - (e_{x+1} - [e_{x+1} + \frac{1}{2}]) \\ &= 0. \end{aligned}$$