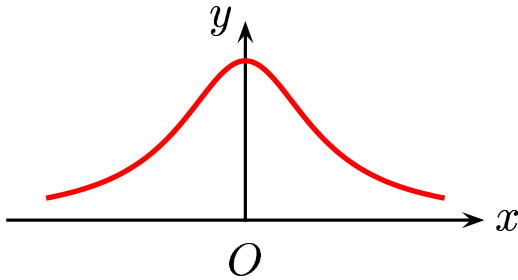


A traveling pulse is described by $y(x, t) = \frac{2}{(x + 3t)^2 + 1}$. At $t = 0$,

$y(x, 0) = \frac{2}{x^2 + 1}$. The shape of $y(x, 0)$ have been shown here,



As t increases, this pulse will maintain the same shape and it will move

- A) to the right.
- B) to the left.
- C) remaining static.
- D) It can not be determined.

At $t = 1$, the peak moves to $x = -3$. So the pulse is moving to the left.

Answer **B**.

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