Name:

1. Americans spent 141 billion dollars on prescription drugs in 2001 and 252 billion dollars in 2005. Assuming that this trend continued (linearly), estimate the amount spent on prescription drugs during 2002 and 2010.

Year	2001	2005
$ Billion	141	252

$\longleftarrow x$

$\longleftarrow y$

$$m = \frac{252-141}{2005-2001} = \frac{111}{4}$$
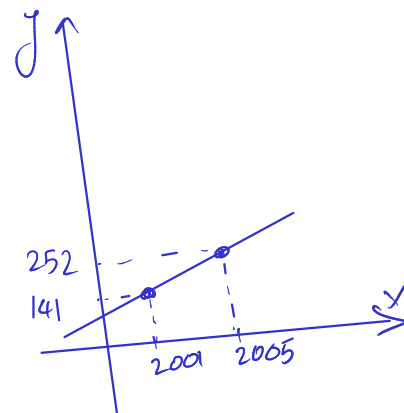
$$y - 141 = \frac{111}{4}\left(x - 2001\right)$$

$$\Rightarrow y(2002) = \frac{111}{4}\left(2002 - 2001\right) + 141 = 168.75$$

$$y(2010) = \frac{111}{4}\left(2010 - 2001\right) + 141 = 390.75$$