1. **(Challenge Problem)** Sam the Snake is driving her derby racer **East** across a parking lot. She gently runs over some candy bars that are piled up in the parking lot. For five seconds after running over the candy, Sam accelerates at a rate of 0.56 m/s² to the West. At the end of the five seconds, Sam's velocity is 14.8 m/s to the East. What was Sam's velocity right after she ran over the candy

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1. (1)
$$t = 5$$
, $\alpha = 0.56$ m/s W, $\sigma = 14.8$ m/s E

(-0.56)

(1) $\sigma = 14.8 - (-0.56)(5)$

14.8 + (+2.8)

 $\sigma = 17.6$
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