## Mathematics 122

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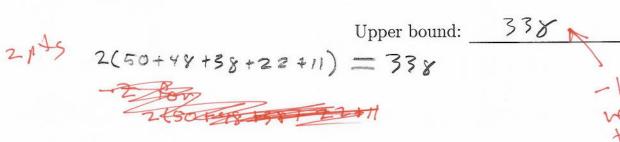
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## You must show your work to get full credit.

The following gives the rate of speed, v, of a braking car t seconds after the breaks are hit.

6 | 8 | 10 t (in seconds) P (in feet/second) 50 48 38 22 11 0

(1) Give an upper bound for the distance traveled during the 10 seconds after the brakes are hit.



(2) Give an upper bound for the distance traveled during this 10 seconds.

$$2(48 + 38 + 22 + 11 + 0)$$
 Lower bound:  $238$ 

(3) Give a "best guess" ad the distance traveled during these 10 seconds.

Ipt

Best Guess: 
$$288$$

A verse of upper and lower pounds
$$= \frac{338 + 238}{2} = 288$$