

# Things Trig – 1500

■ (Calculator allowed) A particle moves along the  $x$ -axis with a velocity of  $v(t) = \cos^2 t - 2 \sin(t+2) - .5$  for  $0 \leq t \leq 2\pi$ . At  $t = 0$ , the position of the particle is  $-2.5$ . The position of the particle when it is farthest to the right on the  $x$ -axis

- A) 0.541
- B) 3.041
- C) 4.167
- D)  $-2.500$