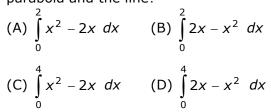
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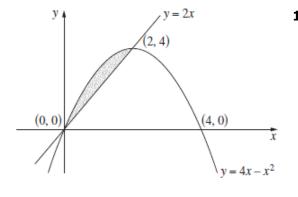
2015 The diagram shows the parabola  $y = 4x - x^2$  meeting the line y = 2x at (0, 0) and (2, 4). Which expression gives the area of the shaded region bounded by the parabola and the line?



(B) 
$$\int_{0}^{2} 2x - x^{2} dx$$

(C) 
$$\int_{1}^{4} x^2 - 2x \ dx$$

(D) 
$$\int_{0}^{4} 2x - x^{2} dx$$



В

Area = 
$$\int_{0}^{2} 4x - x^{2} - 2x dx$$
  
=  $\int_{0}^{2} 2x - x^{2} dx$ 

State Mean: 0.75

<sup>\*</sup> These solutions have been provided by *projectmaths* and are not supplied or endorsed by BOSTES.