

12:35pm

06/01/21

ACHA4000

1910311 (Jacob James)

Q3

9

$$(i) \int (x^5 - 2x)(5x^3 + 6x) dx$$

$$= \int 5x^8 + 6x^6 - 10x^4 - 12x^2 dx$$

$$= \int 5x^8 dx + \int 6x^6 dx - \int 10x^4 dx - \int 12x^2 dx$$

$$= \frac{5x^9}{9} + \frac{6x^7}{7} - 2x^5 - 4x^3$$

$$= \frac{5x^9}{9} + \frac{6x^7}{7} - 2x^5 - 4x^3 + C$$