



# Derivative

Given  $y = x^3 + x^2$ , find  $y'$

- A.  $y' = x^2 + x^5$
- B.  $y' = 3x^2 + x$
- C.  $y' = 3x^2 + 2x$
- D.  $y' = 2x^2 + 3x$

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Given  $y = x - x^{10}$ , find  $y'$  **select 2 answer**

- A.  $y' = 1 - x^9$
- B.  $y' = -10x^9 + 1$
- C.  $y' = 1 - 10x^9$
- D.  $y' = -1 + 10x^9$

Given  $y = 2x^3 + 2x + 6$ , find  $y'$

- A.  $y' = 6x^2 + x$
- B.  $y' = 3x^2 + x$
- C.  $y' = 6x^2 + 2$
- D.  $y' = 6x^2 + 8$