

Operations with polynomials

What is the sum of $3b(b - 4)$ and $6(b - 8)$?

A $3b(1 - 2b - 16)$

B $3b(b - 2 - 16)$

C $3(b^2 - 2b - 16)$

D $3(b^2 - 2 - 16b)$

Which of the following expressions is equivalent to:

$$(4x^3 - 5x) + (8x - 3x^3)?$$

A $x^3 + 3x$

B $x^3 - 3x$

C $7x^3 - 3x$

D $7x^3 + 3x$

Which of the following expressions is equivalent to $(3c - 4c^2 + c^3) - (5c^2 + 8c^3 - 6c)$?

A $7c^3 + 9c^2 - 3c$

B $7c^3 + c^2 - 3c$

C $-7c^3 + c^2 + 9c$

D $-7c^3 - 9c^2 + 9c$

Operations with polynomials

Which of the following is equivalent to $(8r^4 + 4r^2 + 2r) - (8r^4 + 4r^2 + 1)$?

(A) $8r^2 + 2r + 1$

(B) $8r^2 + 3r$

(C) $2r - 1$

(D) r

What is the product of $(x + 6)$ and $(x + 1)$?

(A) $x^2 + 7x + 6$

(B) $x^2 + 6x + 7$

(C) $8x + 6$

(D) $7x + 7$
