



## Operations with polynomials

Name: \_\_\_\_\_

Date: \_\_\_\_\_



Find each product.

1)  $7(3a + 2)$

2)  $(9x - 7)(x - 3)$

3)  $2x^3(x^2 + 6x - 3)$

4)  $4(x + 9)$

5)  $-4x^5(x - 3)$

6)  $(2x - 1)(6x + 3)$

7)  $3(5x^2 - 2)$

8)  $-x^6(-8x + 5)$

9)  $5x^5(x^2 + 6x - 3)$

10)  $3y^2(-y^2 + 6y)$

11)  $(2a^2 - 3a + 1)(a^3 + 6a + 5)$

12)  $(3m^4 + 2m - 1)(m + 1)$

13)  $2(a^3 + 3a^2 + a + 1)(a^5 + 6a^1 + 5)$

14)  $3(3a - 1)(a^2 - 4a + 2)$

15)  $6(a^3 + 1)(-a^2 + 4a + 2)$

16)  $2x^2(x^3 - 1)(x^2 + x - 3)$



QUIZ ?

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## Answers



Find each product.

1)  $7(3a + 2) = 21a + 14$

2)  $(9x - 7)(x - 3) = 9x^2 - 34x + 21$

3)  $2x^3(x^2 + 6x - 3) = 2x^5 + 12x^4 - 6x^3$

4)  $4(x + 9) = 4x + 36$

5)  $-4x^5(x - 3) = -4x^6 + 12x^5$

6)  $(2x - 1)(6x + 3) = 12x^2 - 3$

7)  $3(5x^2 - 2) = 15x^2 - 6$

8)  $-x^6(-8x + 5) = 8x^7 - 5x^6$

9)  $5x^5(x^2 + 6x - 3) = 5x^7 + 30x^6 - 15x^5$

10)  $3y^2(-y^2 + 6y) = -3y^4 + 18y^3$

11)  $(2a^2 - 3a + 1)(a^3 + 6a + 5) = 2a^5 - 3a^4 + 13a^3 - 8a^2 - 9a + 5$

12)  $(3m^4 + 2m - 1)(m + 1) = 3m^5 + 3m^4 + 2m^2 + m - 1$

13)  $2(a^3 + 3a^2 + a + 1)(a^5 + 6a^1 + 5) = 2a^8 + 6a^7 + 2a^6 + 14a^5 + 12a^4 + 46a^3 + 42a^2 + 10$

14)  $3(3a - 1)(a^2 - 4a + 2) = 9a^3 - 39a^2 + 30a - 6$

15)  $6(a^3 + 1)(-a^2 + 4a + 2) = -6a^5 + 24a^4 + 12a^3 - 6a^2 + 24a + 12$

16)  $2x^2(x^3 - 1)(x^2 + x - 3) = 2x^7 + 2x^6 - 6x^5 - 2x^4 - 2x^3 + 6x^2$



QUIZ ?

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