

Name: _____

Math 1 – Multiplying Polynomials

Simplify

1) $x(x + 3)$

2) $4x(2x^2 + 3)$

3) $-3c^2d^2(6cd^2 - 3)$

4) $2y(2y^2 - 6y + 1)$

5) $x^3y^2(2x^2y^2 + 5xy - 4)$

6) $4xy(3x - 2)$

7) $3a^2b(3ab^2 + 2ab - 1)$

8) $(2x + 4)(2x + 1)$

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

10) $(3x + 5)(4x - 4)$

11) $(a - 8)^2$

12) $(3y + 2)^2$

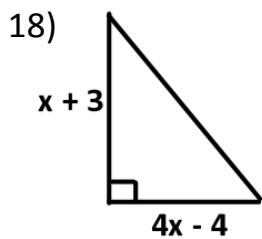
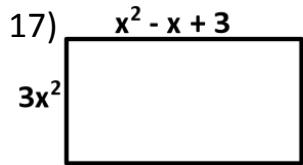
13) $(x + 3)(2x^2 + 4x + 5)$

14) $(x + 7)^2$

15) $(x + 2)(x - 2)$

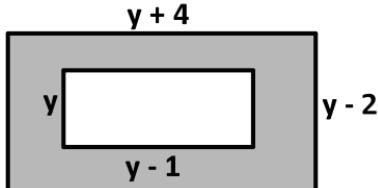
16) $(6x + 1)(6x - 1)$

Find the area of the given figures.



19) The side of a square is 2 more than 3 times a number x .

20) Find the area of the shaded region.



Divide

21)
$$\frac{4x^2 - 4x + 12}{-4}$$

22)
$$\frac{6x^3 + 12x^2 - 36x}{3x}$$

23)
$$\frac{40x^5 + 20x^4 + 10x^3}{10x^3}$$