2.6 Adding and Subtracting Expressions

Terms

x, 8, $5x$

$5x$ coefficient

Like Terms same variable(s) raised to the same exponent

$5x + 6x$

$11x$

$2xy + 3xy$

$5xy$

Simplify

$4x^2 + 5x + 2x^2 + 7x + 1$

$6x^2 + 12x + 1$

Degree of Individual Terms

Exponents on variable

$6x^2 + 12x^1 + 1x^0$

2 1 0

Degree of a constant 0

Trinomial 3 terms

Largest (2) Degree

$xy^2 + x^2y + 3xy + 4x + y + 2$

$x^2y + xy^2 + 3xy + 4x + y + 2$

$x + 4$ Binomial 2 terms

x Monomial 1 term

$x^3 + 3x^2 + 4x + 7$ Polynomial 4 or more

$2r + 7s$

$7b + 10$

$(2x + 8) + (3x + 4)$ Like Terms

$5x + 12$

$(4x - 5) + (2x - 9)$

$6x - 14$

$(-8x - 3) + (2x - 6)$

$-6x - 9$

$(8x + 9) - (3x + 1)$

$5x + 8$

$9 - 1$
8

$(6y + 7) - (2y + 4)$

$4y + 3$

$+7 - +4$
$7 - 4$
3

$(9a + 5) - (2a - 3)$

$7a + 8$

$5 + +3$

$(9a - 5) - (2a - 3)$

$7a - 2$

$-5 + +3$
-2

$(9a - 5) - (2b - 3)$

$9a - 2b - 2$

$(7x+4)-(2x+1)$

$5x+3$

OR

$(7x+4)-(2x+1)$

$7x+4-2x-1$

$5x+3$

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

$-9+3$

$-6x-7$

$-2-5$

$-2+5$

-7

p 92

22-52 E

24. $7d-(1-d)$

$7--1$

$8d-1$