

Worksheet #2 — Basic Parentheses Problems

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Simplify each of the following. Your final answer must contain no parenthesis.

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|-----------------------------|------------------------------|-----------------------------|
| (1) $(3 - 2)x$ | (2) $3 - 2(x)$ | (3) $5 - 8(x) - 2x$ |
| (4) $(x - 3)x - 6$ | (5) $(2x - 3) - 2x$ | (6) $(5x + 1) - (3x)$ |
| (7) $(2x - 2)(2x)$ | (8) $4x - 2(4x)$ | (9) $3x + 2x(3)$ |
| (10) $(3)(4x)$ | (11) $6(2x)$ | (12) $-(2x)$ |
| (13) $9(-3x)$ | (14) $7 + (-2x)$ | (15) $(3) - (8) + 5x$ |
| (16) $(2)(x - 4)$ | (17) $(3) - (x - 3)$ | (18) $8 - 3x - 3$ |
| (19) $(9) - 3(x) - (4)$ | (20) $2(x)^2 + 2x^2$ | (21) $(3x)^2 - 3x^2$ |
| (22) $3 - (2x)^2$ | (23) $1 + (3 - x^2)$ | (24) $-(-2x) - 3x$ |
| (25) $-(-2x - 3x)$ | (26) $2 - 4(3 + x)$ | (27) $x + 1(x + 4)$ |
| (28) $(x + 4)x + 2$ | (29) $(3 - (2x))x - 3$ | (30) $2x + 3(x - 1)$ |
| (31) $2(3x - 1) - 3(x - 1)$ | (32) $5x - 2(2 - (x + 1))$ | (33) $(2)(x) - 3x$ |
| (34) $(2)(x - 3x)$ | (35) $-(-x - (-x - 1))$ | (36) $5x - 7x$ |
| (37) $(2x) - 6x$ | (38) $(3x) - (5x)$ | (39) $(2 + 5)x^2$ |
| (40) $(3 - 2)(5x - 3)$ | (41) $2(3x - 1)$ | (42) $x + 3^2$ |
| (43) $2(3x) - 1$ | (44) $(7x - 2x) - (3x)$ | (45) $3((2x) - 3)$ |
| (46) $-6x(-7x^2)$ | (47) $(5x) - (-3x) - (7x)$ | (48) $x + 3^2$ |
| (49) $6x - 7y$ | (50) $2(3(5(x + 2)))$ | (51) $(5x) - (-3x) - (7x)$ |
| (52) $3x(2x)$ | (53) $x + (3)^2$ | (54) $(3x) - (2x)$ |
| (55) $(5x)(-6x)$ | (56) $2x - 3(x - 1)$ | (57) $(2x - x)^2$ |
| (58) $6x - (7y)$ | (59) $-(2x) - 2x$ | (60) $7 - (6 - (x - 1))$ |
| (61) $-6x - 7x^2$ | (62) $(x)(-3) + 5x$ | (63) $-(-(- (x - 2)))$ |
| (64) $4x^3 - 2x - 8x^3$ | (65) $-((-3)(x))$ | (66) $(3x - 3) - (7x - 5)$ |
| (67) $-(x + 5) - (2x - 3x)$ | (68) $(6x + 3) - (x - 3x^2)$ | (69) $-(3x) + (-5x) - (-x)$ |
| (70) $(3 - x)(-1)$ | (71) $(-3)(x) - (-2)(-x)$ | (72) $-5 - 7(x)$ |

Answers: (1) x (2) $-2x + 3$ (3) $-10x + 5$ (4) $x^2 - 3x - 6$ (5) -3 (6) $2x + 1$
(7) $4x^2 - 4x$ (8) $-4x$ (9) $9x$ (10) $12x$ (11) $12x$ (12) $-2x$ (13) $-27x$
(14) $-2x + 7$ (15) $5x - 5$ (16) $2x - 8$ (17) $-x + 6$ (18) $-3x + 5$ (19) $-3x + 5$
(20) $4x^2$ (21) $6x^2$ (22) $-4x^2 + 3$ (23) $-x^2 + 4$ (24) $-x$ (25) $5x$ (26) $-4x - 10$
(27) $2x + 4$ (28) $x^2 + 4x + 2$ (29) $-2x^2 + 3x - 3$ (30) $5x - 3$ (31) $3x + 1$ (32) $7x - 2$
(33) $-x$ (34) $-4x$ (35) -1 (36) $-2x$ (37) $-4x$ (38) $-2x$ (39) $7x^2$ (40) $5x - 3$
(41) $6x - 2$ (42) $x + 9$ (43) $6x - 1$ (44) $2x$ (45) $6x - 9$ (46) $42x^3$ (47) x
(48) $x + 9$ (49) $-7y + 6x$ (50) $30x + 60$ (51) x (52) $6x^2$ (53) $x + 9$ (54) x
(55) $-30x^2$ (56) $-x + 3$ (57) x^2 (58) $-7y + 6x$ (59) $-4x$ (60) x (61) $-7x^2 - 6x$
(62) $2x$ (63) $-x + 2$ (64) $-4x^3 - 2x$ (65) $3x$ (66) $-4x + 2$ (67) -5 (68) $3x^2 + 5x + 3$
(69) $-7x$ (70) $x - 3$ (71) $-5x$ (72) $-7x - 5$