

Name - _____

Start time - ___ : ___

End time - ___ : ___

Solve the following. Algebraic expressions.

a. $-6x + 5 + 12x - 6$

b. $2(x - 9) + 6(-x + 2) + 4x$

c. $3x^2 + 12 + 9x - 20 + 6x^2 - x$

d. $(x + 2)(x + 4) + (x + 5)(-x - 1)$

e. $1.2(x - 9) - 2.3(x + 4)$

f. $(x^2y)(xy^2)$

g. $(-x^2y^2)(xy^2)$

Simplify the expression.

a. $(a^2b)(a^3b) / (a^2b^3)$

b. $(21x^5) / (3x^4)$

c. $(6x^4)(4y^2) / [(3x^2)(16y)]$

d. $(4x - 12) / 4$

e. $(-5x - 10) / (x + 2)$

f. $(x^2 - 4x - 12) / (x^2 - 2x - 24)$

Solve for x the following linear equations.

a. $2x = 6$

b. $6x - 8 = 4x + 4$

c. $4(x - 2) = 2(x + 3) + 7$

d. $0.1x - 1.6 = 0.2x + 2.3$

e. $-x / 5 = 2$

f. $(x - 4) / (-6) = 3$