GreatMathWorksheets

Name:

Time:

Equation
Unit 2.1

Evaluating Algebraic Expressions Part I

1. Find the value of the expressions below.

Example:	
i. $5x - 3y$ when $x = 4$ and $y = 2$ $= 5 \times 4 - 3 \times 2$ $= 20 - 6$ $= 14$	ii. $\frac{4}{5}x + y$ when $x = 3$ and $y = 1$ $= \frac{4}{5} \times 3 + 1 = \frac{12 + 5}{5} = \frac{17}{5} = 3\frac{2}{5}$

a. $x + y$ when $x = 3$ and $y = 4$

b. $2x - y$ when $x = 2$ and $y = 3$

c. $5x + 3y$ when $x = 4$ and $y = 3$

d. $x - \frac{6}{5}y$ when $x = 4$ and $y = 1$

e. $\frac{2}{7}x - \frac{1}{2}y$ when $x = 2$ and $y = 3$

f. $3x - 4y$ when $x = 3$ and $y = 4$

g. $\frac{x + 3y}{6}$ when $x = 3$ and $y = 3$

h. x^2y when $x = 3$ and $y = 5$

i. $xy^3 - y$ when $x = 2$ and $y = 3$

j. $2x - y^2$ when $x = 4$ and $y = 2$

Evaluating Algebraic Expressions Part II

2. Find the value of the expressions below.

a. $3x + 2y$ when $x = -3$ and $y = 2$

b. $x - y$ when $x = -3$ and $y = 4$

c. $x^2 + y^2$ when $x = -3$ and $y = 4$

d. $3x^2 + 2y$ when $x = -2$ and $y = 3$

e. $3x^2 - y^3$ when $x = -3$ and $y = 3$

f. $-x^2 - y^3$ when $x = -3$ and $y = 2$

g. $x - 2y$ when $x = \frac{1}{3}$ and $y = -\frac{1}{2}$

h. $-4x + 3y$ when $x = -\frac{1}{4}$ and $y = \frac{1}{3}$

i. $x^2 + y^2$ when $x = -\frac{1}{2}$ and $y = -\frac{1}{4}$

j. $x^2 - y^3$ when $x = -\frac{1}{4}$ and $y = \frac{1}{2}$

k. $3x^2 - 4y$ when $x = -\frac{1}{6}$ and $y = \frac{1}{2}$

l. $-9x^2 - 4y^3$ when $x = -\frac{1}{3}$ and $y = \frac{1}{4}$