

Evaluation of algebraic terms

Exercise

Find the value of the following algebraic term.

1) Evaluate the following terms, if $a = 3$, $b = 2$, $c = 1$

a) $2a$

b) $3b^2$

c) $-5a^2$

d) $2ab$

e) $-7bc$

f) $3a + 5b$

g) $8a^2 + 3c$

h) $6a - 2b$

i) $3bc - 2ab$

2) If $a = 28$, $b = 7$ then find the value of the followings.

a) $(a + b)^2$

b) $a - b$

c) $a \div b$

Find the value the following expressions

3) $n^2 + 1$ when $n = 1$, _____, when $n = 2$, _____, and when $n = 7$, _____

4) $3n^2 - 2$ when $n = 1$, _____, when $n = 2$, _____, and when $n = 7$, _____

If $a = -4$, $b = 3$, $c = -2$, $d = 1$, find the value of:

5) $4abc - d =$ _____

6) $a^2 + b^2 =$ _____

7) $b^2 + c^2 =$ _____

8) $a^2 + b^2 + c^2 =$ _____

9) $ab + bc + cd =$ _____

10) $a^3 + b^3 + c^3 =$ _____