Evaluation of Algebraic Terms and Expression

Substitute all the values and simplify.
Example : If x = 2, y = 3 and z = -5, then find the value of $5x - 3y^2 + z$

$5x - 3y^2 + z$
$= 5(2) - 3(3)^2 + (-5)$ (Substituting the values)
$= 10 - 3 \times 9 - 5$ (Using **BIDMAS** for simplification)
$= 10 - 27 - 5$
$= 10 - 32$
$= -22.$

Exercise :

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

a) 4a =_____

b) $2b^2$ =_____

c) $-5a^2$ =_____

d) -8bc =_____

e) 3a + 5b =_____

f) $8a^2 + 3c$ =_____

g) 6a – 2b =_____

h) 4bc – 2ab =_____

Calculate the values when n = 1, 2, and 7

2) 2n – 1 when n= 1, _____, when n=2, _____, and when n=7, _____

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

4) n(n – 1) when n= 1, _____, when n=2, _____, and when n=7, _____

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

6) 3n + 2 when n= 1, _____, when n=2, _____, and when n=7, _____

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

8) Find the value of the terms when x = 18 and y = 6

a) $x/3$ =_____

b) $(x + y)/y$ =_____

c) $(2x - 3y) \div 2$ =_____

9) If a = 6, b = 2 then find the value of the followings.

d) $(a + b)^2$ =_____

b) a – b =_____

c) $a \div b$ =_____

10) If m = 3 , and n = 5, Find the value of $m^2 - n^2$

=_____