Ninth Grade - Number Sense - Polynomials

1) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expressions.6x

- Number of terms = Nil Coefficient of x = 1 Constant = 6
- Number of terms = 1 Coefficient of x = Nil Constant =Nil
- Number of terms = 1 Coefficient of x = 6 Constant =Nil
- Number of terms =1 Coefficient of x = Nil Constant = 6

2) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expressions. 3x +5y

- Number of terms =2 Coefficient of x = Nil Constant = 3
- Number of terms = 2 Coefficient of x = 3 Constant = Nil
- Number of terms =Nil Coefficient of x = 2 Constant = Nil
- Number of terms =1 Coefficient of x = 3 Constant = Nil

3) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. $4x^2$ - 7x +5

- Number of terms = 3 Coefficient of x = -7 Constant = 5
- Number of terms =2 Coefficient of x = 4 Constant = 2
- Number of terms =Nil Coefficient of x = 4 Constant = Nil
- Number of terms =3 Coefficient of x = Nil Constant = Nil

4) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. 16 +5x

- Number of terms = 4 Coefficient of x = 5 Constant = 6
- Number of terms = 2 Coefficient of x =5 Constant =16
- Number of terms =1 Coefficient of x = 5 Constant = 6
- Number of terms = 3 Coefficient of x = 7 Constant =6

5) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. $4x^3 - 7x + 2x^2 - 8$

- Number of terms = 5 Coefficient of x =-4 Constant =NIL
- Number of terms = 4 Coefficient of x =-7 Constant =-8
- Number of terms = 2 Coefficient of x =-9 Constant =-4
- Number of terms = 2 Coefficient of x =-7 Constant =-7

6) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. $2x - 3y + 7$

- Number of terms = 2 Coefficient of x = 3 Constant = -3
- Number of terms = 2 Coefficient of x = 3 Constant = 2
- Number of terms = Nil Coefficient of x = 4 Constant = Nil
- Number of terms = 3 Coefficient of x = 2 Constant = 7

7) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. $7x^2 - 6x + 5$

- Number of terms = 3 Coefficient of x = Nil Constant = Nil
- Number of terms = 3 Coefficient of x = -6 Constant = 5
- Number of terms = 2 Coefficient of x = 5 Constant = -6
- Number of terms = 2 Coefficient of x = -6 Constant = Nil

8) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. $3x - 5 + 7y$

- Number of terms = 3 Coefficient of x = Nil Constant = Nil
- Number of terms = 2 Coefficient of x = 2 Constant = 7
- Number of terms = 3 Coefficient of x = 3 Constant = -5
- Number of terms = 5 Coefficient of x = -5 Constant = -5

9) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. $7x^2 - 2y^2 - 2$

- Number of terms = 3 Coefficient of x = Nil Constant = Nil
- Number of terms = 4 Coefficient of x = 7 Constant = -2
- Number of terms = 4 Coefficient of x = Nil Constant = 7
- Number of terms = 3 Coefficient of x = Nil Constant = -2

10) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. 9 - 2x

- Number of terms = 1 Coefficient of x = -2 Constant = 9
- Number of terms = 2 Coefficient of x = -2 Constant = 9
- Number of terms = 1 Coefficient of x = Nil Constant = Nil
- Number of terms = 9 Coefficient of x = Nil Constant = Nil

11) Simplify the following expression : -3p + 6p

- -3p
- 3p
- 6p
- 1p

12) Simplify the following expression : b - 3 + 6 - 2b

- $b^2 + 3$
- -b + 3
- b + 3
- -2 + 3b

13) Simplify the following expression : 7p - 10p

- 3p

- 7p
- -3p
- p^2 - 3

14) Simplify the following expression : - 10v + 6v

- 4v
- -10v
- 6v
- -4v

15) Simplify the following expression : - 9r + 10r

- r^2
- r
- 10r
- -1r

16) Simplify the following expressions: 9 + 5r - 9r

- 4r -9
- r(4-9)
- -4r +9
- -4 +9

17) Simplify the following expressions: 1 - 3v + 10

- v +10
- 2v -9
- -3v + 11
- 2v +10

18) Simplify the following expressions: 4b + 6 - 4

- b +2
- 4b + 2
- 4b -2
- 10b -4

19) Simplify the following expressions: 35n - 1 + 46

- 34n + 46
- 35n + 45
- 35n - 45
- 36n + 45

20) Simplify the following expressions: -33v - 49v

- 8v
- -82v
- 33v
- -49v

21) Expand and simplify where ever necessary: -5(-4 + 8m) - 13

- 9 + 18m
- 9 + 19m
- 5 + 41m
- 7 - 40m

22) Expand and simplify where ever necessary: 17 - 8(-11 + 4b)

- 95 + 30b
- 85 + 11b
- 10 - 11b
- 105 - 32b

23) Expand and simplify where ever necessary: -9(7k -19) + 11k

- k +11
- 7k +18k
- 51k +170
- -52k +171

24) Expand and simplify where ever necessary: 4x + 12(-17x + 8)

- 90x + 85
- -200x + 96
- 150x + 93
- 85x + 70

25) Expand and simplify where ever necessary: 13 + 4(-3m + 14)

- 10m + 93
- -10m + 83
- -12m + 69
- -20m + 70

26) Expand and simplify where ever necessary: -2m + 3(6m - 16)

- 15m + 40
- 16m - 48
- 13m - 48
- 17m - 40

27) Expand and simplify where ever necessary: 6(-5h - 13) + 2

- 30h + 73
- -30h - 76
- 25 h - 70
- 32h + 76

28) Expand and simplify where ever necessary: -10(4n - 3) + 13

- 23n + 36
- 20n + 45
- -40n + 43
- 35n + 40

29) Expand and simplify where ever necessary: 18(13 - 2z) + 11z

- 200 - 24z
- 223 - 25z
- 234 - 25z
- 230 - 27z

30) Expand and simplify where ever necessary: 16 - 4(-18 - 2p)

- 83 + 3P
- 80 + 5p
- 82 + 7P
- 88 + 8p