Subtraction of Binomials Solved Examples

Example 1

Subtract: (25a + 9) - (14m - 9)

Given binomials are:

First Binomial = (25a + 9)
Second Binomial = (14m - 9)

Form subtraction expression:

(25a + 9) - (14m - 9)

Open brackets and change signs of second binomial:

25a + 9 - 14m + 9

Arrange like terms together:

25a - 14m + 9 + 9

Subtract like terms and simplify:

25a - 14m + 18

Hence, (25a + 9) - (14m - 9)= 25a - 14m + 18

Example 2

Subtract: (27y - 9) - (19y - 1)

Given binomials are:

First Binomial = (27y - 9)
Second Binomial = (19y - 1)

Form subtraction expression:

(27y - 9) - (19y - 1)

Open brackets and change signs of second binomial:

27y - 9 - 19y + 1

Arrange like terms together:

27y - 19y - 9 + 1

Subtract like terms and simplify:

8y - 8

Hence, (27y - 9) - (19y - 1)= 8y - 8

Example 3

Subtract: (28p + 9) - (26p - 9)

Given binomials are:

First Binomial = (28p + 9)
Second Binomial = (26p - 9)

Form subtraction expression:

(28p + 9) - (26p - 9)

Open brackets and change signs of second binomial:

28p + 9 - 26p + 9

Arrange like terms together:

28p - 26p + 9 + 9

Subtract like terms and simplify:

2p + 18

Hence, (28p + 9) - (26p - 9)= 2p + 18

Example 4

Subtract: (25y - 1) - (7p + 2)

Given binomials are:

First Binomial = (25y - 1)
Second Binomial = (7p + 2)

Form subtraction expression:

(25y - 1) - (7p + 2)

Open brackets and change signs of second binomial:

25y - 1 - 7p - 2

Arrange like terms together:

25y - 7p - 1 - 2

Subtract like terms and simplify:

25y - 7p - 3

Hence, (25y - 1) - (7p + 2)= 25y - 7p - 3

Example 5

Subtract: (14y - 6) - (8y - 13)

Given binomials are:

First Binomial = (14y - 6)
Second Binomial = (8y - 13)

Form subtraction expression:

(14y - 6) - (8y - 13)

Open brackets and change signs of second binomial:

14y - 6 - 8y + 13

Arrange like terms together:

14y - 8y - 6 + 13

Subtract like terms and simplify:

6y + 7

Hence, (14y - 6) - (8y - 13)= 6y + 7

Example 6

Subtract: (23y - 10) - (19a - 6)

Given binomials are:

First Binomial = (23y - 10)
Second Binomial = (19a - 6)

Form subtraction expression:

(23y - 10) - (19a - 6)

Open brackets and change signs of second binomial:

23y - 10 - 19a + 6

Arrange like terms together:

23y - 19a - 10 + 6

Subtract like terms and simplify:

23y - 19a - 4

Hence, (23y - 10) - (19a - 6)= 23y - 19a - 4

Example 7

Subtract: (6a + 8) - (8p + 14)

Given binomials are:

First Binomial = (6a + 8)
Second Binomial = (8p + 14)

Form subtraction expression:

(6a + 8) - (8p + 14)

Open brackets and change signs of second binomial:

6a + 8 - 8p - 14

Arrange like terms together:

6a - 8p + 8 - 14

Subtract like terms and simplify:

6a - 8p - 6

Hence, (6a + 8) - (8p + 14)= 6a - 8p - 6

Example 8

Subtract: (22p + 9) - (29p - 1)

Given binomials are:

First Binomial = (22p + 9)
Second Binomial = (29p - 1)

Form subtraction expression:

(22p + 9) - (29p - 1)

Open brackets and change signs of second binomial:

22p + 9 - 29p + 1

Arrange like terms together:

22p - 29p + 9 + 1

Subtract like terms and simplify:

-7p + 10

Hence, (22p + 9) - (29p - 1)= -7p + 10

Example 9

Subtract: (7p + 7) - (28b - 9)

Given binomials are:

First Binomial = (7p + 7)
Second Binomial = (28b - 9)

Form subtraction expression:

(7p + 7) - (28b - 9)

Open brackets and change signs of second binomial:

7p + 7 - 28b + 9

Arrange like terms together:

7p - 28b + 7 + 9

Subtract like terms and simplify:

7p - 28b + 16

Hence, (7p + 7) - (28b - 9)= 7p - 28b + 16

Example 10

Subtract: (5p + 12) - (13p - 10)

Given binomials are:

First Binomial = (5p + 12)
Second Binomial = (13p - 10)

Form subtraction expression:

(5p + 12) - (13p - 10)

Open brackets and change signs of second binomial:

5p + 12 - 13p + 10

Arrange like terms together:

5p - 13p + 12 + 10

Subtract like terms and simplify:

-8p + 22

Hence, (5p + 12) - (13p - 10)= -8p + 22

Example 11

Subtract: (29m - 10) - (8m + 13)

Given binomials are:

First Binomial = (29m - 10)
Second Binomial = (8m + 13)

Form subtraction expression:

(29m - 10) - (8m + 13)

Open brackets and change signs of second binomial:

29m - 10 - 8m - 13

Arrange like terms together:

29m - 8m - 10 - 13

Subtract like terms and simplify:

21m - 23

Hence, (29m - 10) - (8m + 13)= 21m - 23

Example 12

Subtract: (30y - 12) - (11y - 11)

Given binomials are:

First Binomial = (30y - 12)

Second Binomial = (11y - 11)

Form subtraction expression:

(30y - 12) - (11y - 11)

Open brackets and change signs of second binomial:

30y - 12 - 11y + 11

Arrange like terms together:

30y - 11y - 12 + 11

Subtract like terms and simplify:

19y - 1

Hence, (30y - 12) - (11y - 11)= 19y - 1

Example 13

Subtract: (11p + 8) - (7y + 6)

Given binomials are:

First Binomial = (11p + 8)
Second Binomial = (7y + 6)

Form subtraction expression:

(11p + 8) - (7y + 6)

Open brackets and change signs of second binomial:

11p + 8 - 7y - 6

Arrange like terms together:

11p - 7y + 8 - 6

Subtract like terms and simplify:

11p - 7y + 2

Hence, (11p + 8) - (7y + 6)= 11p - 7y + 2

Example 14

Subtract: (14p + 12) - (27x - 13)

Given binomials are:

First Binomial = (14p + 12)
Second Binomial = (27x - 13)

Form subtraction expression:

(14p + 12) - (27x - 13)

Open brackets and change signs of second binomial:

14p + 12 - 27x + 13

Arrange like terms together:

14p - 27x + 12 + 13

Subtract like terms and simplify:

14p - 27x + 25

Hence, (14p + 12) - (27x - 13)= 14p - 27x + 25

Example 15

Subtract: (10y - 11) - (15y - 2)

Given binomials are:

First Binomial = (10y - 11)
Second Binomial = (15y - 2)

Form subtraction expression:

(10y - 11) - (15y - 2)

Open brackets and change signs of second binomial:

10y - 11 - 15y + 2

Arrange like terms together:

10y - 15y - 11 + 2

Subtract like terms and simplify:

-5y - 9

Hence, (10y - 11) - (15y - 2)= -5y - 9

Example 16

Subtract: (10a + 8) - (13a + 5)

Given binomials are:

First Binomial = (10a + 8)
Second Binomial = (13a + 5)

Form subtraction expression:

(10a + 8) - (13a + 5)

Open brackets and change signs of second binomial:

10a + 8 - 13a - 5

Arrange like terms together:

10a - 13a + 8 - 5

Subtract like terms and simplify:

-3a + 3

Hence, (10a + 8) - (13a + 5)= -3a + 3

Example 17

Subtract: (11x + 11) - (23x - 1)

Given binomials are:

First Binomial = (11x + 11)
Second Binomial = (23x - 1)

Form subtraction expression:

(11x + 11) - (23x - 1)

Open brackets and change signs of second binomial:

11x + 11 - 23x + 1

Arrange like terms together:

11x - 23x + 11 + 1

Subtract like terms and simplify:

-12x + 12

Hence, (11x + 11) - (23x - 1)= -12x + 12

Example 18

Subtract: (15a - 5) - (21p + 3)

Given binomials are:

First Binomial = (15a - 5)
Second Binomial = (21p + 3)

Form subtraction expression:

(15a - 5) - (21p + 3)

Open brackets and change signs of second binomial:

15a - 5 - 21p - 3

Arrange like terms together:

15a - 21p - 5 - 3

Subtract like terms and simplify:

15a - 21p - 8

Hence, (15a - 5) - (21p + 3)= 15a - 21p - 8

Example 19

Subtract: (8b - 7) - (19b - 1)

Given binomials are:

First Binomial = (8b - 7)
Second Binomial = (19b - 1)

Form subtraction expression:

(8b - 7) - (19b - 1)

Open brackets and change signs of second binomial:

8b - 7 - 19b + 1

Arrange like terms together:

8b - 19b - 7 + 1

Subtract like terms and simplify:

-11b - 6

Hence, (8b - 7) - (19b - 1)= -11b - 6

Example 20

Subtract: (14p - 8) - (22p - 11)

Given binomials are:

First Binomial = (14p - 8)

Second Binomial = (22p - 11)

Form subtraction expression:

(14p - 8) - (22p - 11)

Open brackets and change signs of second binomial:

14p - 8 - 22p + 11

Arrange like terms together:

14p - 22p - 8 + 11

Subtract like terms and simplify:

-8p + 3

Hence, (14p - 8) - (22p - 11)= -8p + 3