Subtraction of Binomials Solved Examples

Example 1

Subtract: (23y - 2) - (10p - 2)

Given binomials are:

First Binomial = (23y - 2)
Second Binomial = (10p - 2)

Form subtraction expression:

(23y - 2) - (10p - 2)

Open brackets and change signs of second binomial:

23y - 2 - 10p + 2

Arrange like terms together:

23y - 10p - 2 + 2

Subtract like terms and simplify:

23y - 10p

Hence, (23y - 2) - (10p - 2)= 23y - 10p

Example 2

Subtract: (16x - 3) - (16x - 3)

Given binomials are:

First Binomial = (16x - 3)
Second Binomial = (16x - 3)

Form subtraction expression:

(16x - 3) - (16x - 3)

Open brackets and change signs of second binomial:

16x - 3 - 16x + 3

Arrange like terms together:

16x - 16x - 3 + 3

Subtract like terms and simplify:

0x

Hence, (16x - 3) - (16x - 3)= 0x

Example 3

Subtract: (26y - 7) - (16x - 5)

Given binomials are:

First Binomial = (26y - 7)
Second Binomial = (16x - 5)

Form subtraction expression:

(26y - 7) - (16x - 5)

Open brackets and change signs of second binomial:

26y - 7 - 16x + 5

Arrange like terms together:

26y - 16x - 7 + 5

Subtract like terms and simplify:

26y - 16x - 2

Hence, (26y - 7) - (16x - 5)= 26y - 16x - 2

Example 4

Subtract: (8m - 12) - (26m + 12)

Given binomials are:

First Binomial = (8m - 12)
Second Binomial = (26m + 12)

Form subtraction expression:

(8m - 12) - (26m + 12)

Open brackets and change signs of second binomial:

8m - 12 - 26m - 12

Arrange like terms together:

8m - 26m - 12 - 12

Subtract like terms and simplify:

-18m - 24

Hence, (8m - 12) - (26m + 12)= -18m - 24

Example 5

Subtract: (7y + 8) - (15x - 2)

Given binomials are:

First Binomial = (7y + 8)
Second Binomial = (15x - 2)

Form subtraction expression:

(7y + 8) - (15x - 2)

Open brackets and change signs of second binomial:

7y + 8 - 15x + 2

Arrange like terms together:

7y - 15x + 8 + 2

Subtract like terms and simplify:

7y - 15x + 10

Hence, (7y + 8) - (15x - 2)= 7y - 15x + 10

Example 6

Subtract: (28a + 1) - (23a - 8)

Given binomials are:

First Binomial = (28a + 1)
Second Binomial = (23a - 8)

Form subtraction expression:

(28a + 1) - (23a - 8)

Open brackets and change signs of second binomial:

28a + 1 - 23a + 8

Arrange like terms together:

28a - 23a + 1 + 8

Subtract like terms and simplify:

5a + 9

Hence, (28a + 1) - (23a - 8)= 5a + 9

Example 7

Subtract: (18x - 10) - (8m - 10)

Given binomials are:

First Binomial = (18x - 10)
Second Binomial = (8m - 10)

Form subtraction expression:

(18x - 10) - (8m - 10)

Open brackets and change signs of second binomial:

18x - 10 - 8m + 10

Arrange like terms together:

18x - 8m - 10 + 10

Subtract like terms and simplify:

18x - 8m

Hence, (18x - 10) - (8m - 10)= 18x - 8m

Example 8

Subtract: (8m + 14) - (12m + 10)

Given binomials are:

First Binomial = (8m + 14)
Second Binomial = (12m + 10)

Form subtraction expression:

(8m + 14) - (12m + 10)

Open brackets and change signs of second binomial:

8m + 14 - 12m - 10

Arrange like terms together:

8m - 12m + 14 - 10

Subtract like terms and simplify:

-4m + 4

Hence, (8m + 14) - (12m + 10)= -4m + 4

Example 9

Subtract: (28y - 13) - (13y - 3)

Given binomials are:

First Binomial = (28y - 13)
Second Binomial = (13y - 3)

Form subtraction expression:

(28y - 13) - (13y - 3)

Open brackets and change signs of second binomial:

28y - 13 - 13y + 3

Arrange like terms together:

28y - 13y - 13 + 3

Subtract like terms and simplify:

15y - 10

Hence, (28y - 13) - (13y - 3)= 15y - 10

Example 10

Subtract: (10x - 8) - (25x + 1)

Given binomials are:

First Binomial = (10x - 8)
Second Binomial = (25x + 1)

Form subtraction expression:

(10x - 8) - (25x + 1)

Open brackets and change signs of second binomial:

10x - 8 - 25x - 1

Arrange like terms together:

10x - 25x - 8 - 1

Subtract like terms and simplify:

-15x - 9

Hence, (10x - 8) - (25x + 1)= -15x - 9

Example 11

Subtract: (28b - 5) - (7b + 7)

Given binomials are:

First Binomial = (28b - 5)
Second Binomial = (7b + 7)

Form subtraction expression:

(28b - 5) - (7b + 7)

Open brackets and change signs of second binomial:

28b - 5 - 7b - 7

Arrange like terms together:

28b - 7b - 5 - 7

Subtract like terms and simplify:

21b - 12

Hence, (28b - 5) - (7b + 7)= 21b - 12

Example 12

Subtract: (19p - 13) - (12a + 9)

Given binomials are:

First Binomial = (19p - 13)

Second Binomial = (12a + 9)

Form subtraction expression:

(19p - 13) - (12a + 9)

Open brackets and change signs of second binomial:

19p - 13 - 12a - 9

Arrange like terms together:

19p - 12a - 13 - 9

Subtract like terms and simplify:

19p - 12a - 22

Hence, (19p - 13) - (12a + 9)= 19p - 12a - 22

Example 13

Subtract: (19m + 13) - (12b - 5)

Given binomials are:

First Binomial = (19m + 13)
Second Binomial = (12b - 5)

Form subtraction expression:

(19m + 13) - (12b - 5)

Open brackets and change signs of second binomial:

19m + 13 - 12b + 5

Arrange like terms together:

19m - 12b + 13 + 5

Subtract like terms and simplify:

19m - 12b + 18

Hence, (19m + 13) - (12b - 5)= 19m - 12b + 18

Example 14

Subtract: (28b - 10) - (13b + 13)

Given binomials are:

First Binomial = (28b - 10)
Second Binomial = (13b + 13)

Form subtraction expression:

(28b - 10) - (13b + 13)

Open brackets and change signs of second binomial:

28b - 10 - 13b - 13

Arrange like terms together:

28b - 13b - 10 - 13

Subtract like terms and simplify:

15b - 23

Hence, (28b - 10) - (13b + 13)= 15b - 23

Example 15

Subtract: (30y - 12) - (16y + 5)

Given binomials are:

First Binomial = (30y - 12)
Second Binomial = (16y + 5)

Form subtraction expression:

(30y - 12) - (16y + 5)

Open brackets and change signs of second binomial:

30y - 12 - 16y - 5

Arrange like terms together:

30y - 16y - 12 - 5

Subtract like terms and simplify:

14y - 17

Hence, (30y - 12) - (16y + 5)= 14y - 17

Example 16

Subtract: (19b - 2) - (16b + 13)

Given binomials are:

First Binomial = (19b - 2)
Second Binomial = (16b + 13)

Form subtraction expression:

(19b - 2) - (16b + 13)

Open brackets and change signs of second binomial:

19b - 2 - 16b - 13

Arrange like terms together:

19b - 16b - 2 - 13

Subtract like terms and simplify:

3b - 15

Hence, (19b - 2) - (16b + 13)= 3b - 15

Example 17

Subtract: (18b + 13) - (11a - 11)

Given binomials are:

First Binomial = (18b + 13)
Second Binomial = (11a - 11)

Form subtraction expression:

(18b + 13) - (11a - 11)

Open brackets and change signs of second binomial:

18b + 13 - 11a + 11

Arrange like terms together:

18b - 11a + 13 + 11

Subtract like terms and simplify:

18b - 11a + 24

Hence, (18b + 13) - (11a - 11)= 18b - 11a + 24

Example 18

Subtract: (30y + 15) - (20b - 12)

Given binomials are:

First Binomial = (30y + 15)
Second Binomial = (20b - 12)

Form subtraction expression:

(30y + 15) - (20b - 12)

Open brackets and change signs of second binomial:

30y + 15 - 20b + 12

Arrange like terms together:

30y - 20b + 15 + 12

Subtract like terms and simplify:

30y - 20b + 27

Hence, (30y + 15) - (20b - 12)= 30y - 20b + 27

Example 19

Subtract: (20a - 10) - (16y - 7)

Given binomials are:

First Binomial = (20a - 10)
Second Binomial = (16y - 7)

Form subtraction expression:

(20a - 10) - (16y - 7)

Open brackets and change signs of second binomial:

20a - 10 - 16y + 7

Arrange like terms together:

20a - 16y - 10 + 7

Subtract like terms and simplify:

20a - 16y - 3

Hence, (20a - 10) - (16y - 7)= 20a - 16y - 3

Example 20

Subtract: (6b - 15) - (17b - 15)

Given binomials are:

First Binomial = (6b - 15)

Second Binomial = (17b - 15)

Form subtraction expression:

(6b - 15) - (17b - 15)

Open brackets and change signs of second binomial:

6b - 15 - 17b + 15

Arrange like terms together:

6b - 17b - 15 + 15

Subtract like terms and simplify:

-11b

Hence, (6b - 15) - (17b - 15)= -11b