Subtraction of Binomials Solved Examples

Example 1

Subtract: (30b - 13) - (7a + 1)

Given binomials are:

First Binomial = (30b - 13)
Second Binomial = (7a + 1)

Form subtraction expression:

(30b - 13) - (7a + 1)

Open brackets and change signs of second binomial:

30b - 13 - 7a - 1

Arrange like terms together:

30b - 7a - 13 - 1

Subtract like terms and simplify:

30b - 7a - 14

Hence, (30b - 13) - (7a + 1)= 30b - 7a - 14

Example 2

Subtract: (7p + 6) - (9p - 2)

Given binomials are:

First Binomial = (7p + 6)
Second Binomial = (9p - 2)

Form subtraction expression:

(7p + 6) - (9p - 2)

Open brackets and change signs of second binomial:

7p + 6 - 9p + 2

Arrange like terms together:

7p - 9p + 6 + 2

Subtract like terms and simplify:

-2p + 8

Hence, (7p + 6) - (9p - 2)= -2p + 8

Example 3

Subtract: (28a - 9) - (15a - 4)

Given binomials are:

First Binomial = (28a - 9)
Second Binomial = (15a - 4)

Form subtraction expression:

(28a - 9) - (15a - 4)

Open brackets and change signs of second binomial:

28a - 9 - 15a + 4

Arrange like terms together:

28a - 15a - 9 + 4

Subtract like terms and simplify:

13a - 5

Hence, (28a - 9) - (15a - 4)= 13a - 5

Example 4

Subtract: (15b - 14) - (19b - 1)

Given binomials are:

First Binomial = (15b - 14)
Second Binomial = (19b - 1)

Form subtraction expression:

(15b - 14) - (19b - 1)

Open brackets and change signs of second binomial:

15b - 14 - 19b + 1

Arrange like terms together:

15b - 19b - 14 + 1

Subtract like terms and simplify:

-4b - 13

Hence, (15b - 14) - (19b - 1)= -4b - 13

Example 5

Subtract: (29b - 6) - (13b - 1)

Given binomials are:

First Binomial = (29b - 6)
Second Binomial = (13b - 1)

Form subtraction expression:

(29b - 6) - (13b - 1)

Open brackets and change signs of second binomial:

29b - 6 - 13b + 1

Arrange like terms together:

29b - 13b - 6 + 1

Subtract like terms and simplify:

16b - 5

Hence, (29b - 6) - (13b - 1)= 16b - 5

Example 6

Subtract: (17b + 14) - (15b - 15)

Given binomials are:

First Binomial = (17b + 14)
Second Binomial = (15b - 15)

Form subtraction expression:

(17b + 14) - (15b - 15)

Open brackets and change signs of second binomial:

17b + 14 - 15b + 15

Arrange like terms together:

17b - 15b + 14 + 15

Subtract like terms and simplify:

2b + 29

Hence, (17b + 14) - (15b - 15)= 2b + 29

Example 7

Subtract: (21p - 6) - (12b + 1)

Given binomials are:

First Binomial = (21p - 6)
Second Binomial = (12b + 1)

Form subtraction expression:

(21p - 6) - (12b + 1)

Open brackets and change signs of second binomial:

21p - 6 - 12b - 1

Arrange like terms together:

21p - 12b - 6 - 1

Subtract like terms and simplify:

21p - 12b - 7

Hence, (21p - 6) - (12b + 1)= 21p - 12b - 7

Example 8

Subtract: (30x + 14) - (23y + 9)

Given binomials are:

First Binomial = (30x + 14)
Second Binomial = (23y + 9)

Form subtraction expression:

(30x + 14) - (23y + 9)

Open brackets and change signs of second binomial:

30x + 14 - 23y - 9

Arrange like terms together:

30x - 23y + 14 - 9

Subtract like terms and simplify:

30x - 23y + 5

Hence, (30x + 14) - (23y + 9)= 30x - 23y + 5

Example 9

Subtract: (26b + 10) - (22x + 10)

Given binomials are:

First Binomial = (26b + 10)
Second Binomial = (22x + 10)

Form subtraction expression:

(26b + 10) - (22x + 10)

Open brackets and change signs of second binomial:

26b + 10 - 22x - 10

Arrange like terms together:

26b - 22x + 10 - 10

Subtract like terms and simplify:

26b - 22x

Hence, (26b + 10) - (22x + 10)= 26b - 22x

Example 10

Subtract: (23m + 6) - (6m + 5)

Given binomials are:

First Binomial = (23m + 6)
Second Binomial = (6m + 5)

Form subtraction expression:

(23m + 6) - (6m + 5)

Open brackets and change signs of second binomial:

23m + 6 - 6m - 5

Arrange like terms together:

23m - 6m + 6 - 5

Subtract like terms and simplify:

17m + 1

Hence, (23m + 6) - (6m + 5)= 17m + 1

Example 11

Subtract: (19m + 13) - (10p + 2)

Given binomials are:

First Binomial = (19m + 13)
Second Binomial = (10p + 2)

Form subtraction expression:

(19m + 13) - (10p + 2)

Open brackets and change signs of second binomial:

19m + 13 - 10p - 2

Arrange like terms together:

19m - 10p + 13 - 2

Subtract like terms and simplify:

19m - 10p + 11

Hence, (19m + 13) - (10p + 2)= 19m - 10p + 11

Example 12

Subtract: (8x - 3) - (19y - 3)

Given binomials are:

First Binomial = (8x - 3)

Second Binomial = (19y - 3)

Form subtraction expression:

(8x - 3) - (19y - 3)

Open brackets and change signs of second binomial:

8x - 3 - 19y + 3

Arrange like terms together:

8x - 19y - 3 + 3

Subtract like terms and simplify:

8x - 19y

Hence, (8x - 3) - (19y - 3)= 8x - 19y

Example 13

Subtract: (30p + 8) - (14x + 1)

Given binomials are:

First Binomial = (30p + 8)
Second Binomial = (14x + 1)

Form subtraction expression:

(30p + 8) - (14x + 1)

Open brackets and change signs of second binomial:

30p + 8 - 14x - 1

Arrange like terms together:

30p - 14x + 8 - 1

Subtract like terms and simplify:

30p - 14x + 7

Hence, (30p + 8) - (14x + 1)= 30p - 14x + 7

Example 14

Subtract: (12y + 5) - (27y - 2)

Given binomials are:

First Binomial = (12y + 5)
Second Binomial = (27y - 2)

Form subtraction expression:

(12y + 5) - (27y - 2)

Open brackets and change signs of second binomial:

12y + 5 - 27y + 2

Arrange like terms together:

12y - 27y + 5 + 2

Subtract like terms and simplify:

-15y + 7

Hence, (12y + 5) - (27y - 2)= -15y + 7

Example 15

Subtract: (22b - 8) - (14x - 12)

Given binomials are:

First Binomial = (22b - 8)
Second Binomial = (14x - 12)

Form subtraction expression:

(22b - 8) - (14x - 12)

Open brackets and change signs of second binomial:

22b - 8 - 14x + 12

Arrange like terms together:

22b - 14x - 8 + 12

Subtract like terms and simplify:

22b - 14x + 4

Hence, (22b - 8) - (14x - 12)= 22b - 14x + 4

Example 16

Subtract: (20y + 2) - (30b + 11)

Given binomials are:

First Binomial = (20y + 2)
Second Binomial = (30b + 11)

Form subtraction expression:

(20y + 2) - (30b + 11)

Open brackets and change signs of second binomial:

20y + 2 - 30b - 11

Arrange like terms together:

20y - 30b + 2 - 11

Subtract like terms and simplify:

20y - 30b - 9

Hence, (20y + 2) - (30b + 11)= 20y - 30b - 9

Example 17

Subtract: (15m + 11) - (10m + 15)

Given binomials are:

First Binomial = (15m + 11)
Second Binomial = (10m + 15)

Form subtraction expression:

(15m + 11) - (10m + 15)

Open brackets and change signs of second binomial:

15m + 11 - 10m - 15

Arrange like terms together:

15m - 10m + 11 - 15

Subtract like terms and simplify:

5m - 4

Hence, (15m + 11) - (10m + 15)= 5m - 4

Example 18

Subtract: (11a + 9) - (26b + 9)

Given binomials are:

First Binomial = (11a + 9)
Second Binomial = (26b + 9)

Form subtraction expression:

(11a + 9) - (26b + 9)

Open brackets and change signs of second binomial:

11a + 9 - 26b - 9

Arrange like terms together:

11a - 26b + 9 - 9

Subtract like terms and simplify:

11a - 26b

Hence, (11a + 9) - (26b + 9)= 11a - 26b

Example 19

Subtract: (14x + 12) - (24x - 7)

Given binomials are:

First Binomial = (14x + 12)
Second Binomial = (24x - 7)

Form subtraction expression:

(14x + 12) - (24x - 7)

Open brackets and change signs of second binomial:

14x + 12 - 24x + 7

Arrange like terms together:

14x - 24x + 12 + 7

Subtract like terms and simplify:

-10x + 19

Hence, (14x + 12) - (24x - 7)= -10x + 19

Example 20

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

Given binomials are:

First Binomial = (29m + 13)

Second Binomial = (13m - 8)

Form subtraction expression:

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

Open brackets and change signs of second binomial:

29m + 13 - 13m + 8

Arrange like terms together:

29m - 13m + 13 + 8

Subtract like terms and simplify:

16m + 21

Hence, (29m + 13) - (13m - 8)= 16m + 21