Subtraction of Binomials Solved Examples

Example 1

Subtract: (13x - 4) - (17x - 3)

Given binomials are:

First Binomial = (13x - 4)
Second Binomial = (17x - 3)

Form subtraction expression:

(13x - 4) - (17x - 3)

Open brackets and change signs of second binomial:

13x - 4 - 17x + 3

Arrange like terms together:

13x - 17x - 4 + 3

Subtract like terms and simplify:

-4x - 1

Hence, (13x - 4) - (17x - 3)= -4x - 1

Example 2

Subtract: (19b + 9) - (30b + 13)

Given binomials are:

First Binomial = (19b + 9)
Second Binomial = (30b + 13)

Form subtraction expression:

(19b + 9) - (30b + 13)

Open brackets and change signs of second binomial:

19b + 9 - 30b - 13

Arrange like terms together:

19b - 30b + 9 - 13

Subtract like terms and simplify:

-11b - 4

Hence, (19b + 9) - (30b + 13)= -11b - 4

Example 3

Subtract: (28a + 2) - (28a + 8)

Given binomials are:

First Binomial = (28a + 2)
Second Binomial = (28a + 8)

Form subtraction expression:

(28a + 2) - (28a + 8)

Open brackets and change signs of second binomial:

28a + 2 - 28a - 8

Arrange like terms together:

28a - 28a + 2 - 8

Subtract like terms and simplify:

0a - 6

Hence, (28a + 2) - (28a + 8)= 0a - 6

Example 4

Subtract: (25a - 4) - (21x + 1)

Given binomials are:

First Binomial = (25a - 4)
Second Binomial = (21x + 1)

Form subtraction expression:

(25a - 4) - (21x + 1)

Open brackets and change signs of second binomial:

25a - 4 - 21x - 1

Arrange like terms together:

25a - 21x - 4 - 1

Subtract like terms and simplify:

25a - 21x - 5

Hence, (25a - 4) - (21x + 1)= 25a - 21x - 5

Example 5

Subtract: (21y + 9) - (12x + 12)

Given binomials are:

First Binomial = (21y + 9)
Second Binomial = (12x + 12)

Form subtraction expression:

(21y + 9) - (12x + 12)

Open brackets and change signs of second binomial:

21y + 9 - 12x - 12

Arrange like terms together:

21y - 12x + 9 - 12

Subtract like terms and simplify:

21y - 12x - 3

Hence, (21y + 9) - (12x + 12)= 21y - 12x - 3

Example 6

Subtract: (18b + 4) - (8y - 13)

Given binomials are:

First Binomial = (18b + 4)
Second Binomial = (8y - 13)

Form subtraction expression:

(18b + 4) - (8y - 13)

Open brackets and change signs of second binomial:

18b + 4 - 8y + 13

Arrange like terms together:

18b - 8y + 4 + 13

Subtract like terms and simplify:

18b - 8y + 17

Hence, (18b + 4) - (8y - 13)= 18b - 8y + 17

Example 7

Subtract: (16x - 5) - (14b + 8)

Given binomials are:

First Binomial = (16x - 5)
Second Binomial = (14b + 8)

Form subtraction expression:

(16x - 5) - (14b + 8)

Open brackets and change signs of second binomial:

16x - 5 - 14b - 8

Arrange like terms together:

16x - 14b - 5 - 8

Subtract like terms and simplify:

16x - 14b - 13

Hence, (16x - 5) - (14b + 8)= 16x - 14b - 13

Example 8

Subtract: (24m + 13) - (22y - 15)

Given binomials are:

First Binomial = (24m + 13)
Second Binomial = (22y - 15)

Form subtraction expression:

(24m + 13) - (22y - 15)

Open brackets and change signs of second binomial:

24m + 13 - 22y + 15

Arrange like terms together:

24m - 22y + 13 + 15

Subtract like terms and simplify:

24m - 22y + 28

Hence, (24m + 13) - (22y - 15)= 24m - 22y + 28

Example 9

Subtract: (19y + 13) - (24y + 7)

Given binomials are:

First Binomial = (19y + 13)
Second Binomial = (24y + 7)

Form subtraction expression:

(19y + 13) - (24y + 7)

Open brackets and change signs of second binomial:

19y + 13 - 24y - 7

Arrange like terms together:

19y - 24y + 13 - 7

Subtract like terms and simplify:

-5y + 6

Hence, (19y + 13) - (24y + 7)= -5y + 6

Example 10

Subtract: (9y - 9) - (7y + 6)

Given binomials are:

First Binomial = (9y - 9)
Second Binomial = (7y + 6)

Form subtraction expression:

(9y - 9) - (7y + 6)

Open brackets and change signs of second binomial:

9y - 9 - 7y - 6

Arrange like terms together:

9y - 7y - 9 - 6

Subtract like terms and simplify:

2y - 15

Hence, (9y - 9) - (7y + 6)= 2y - 15

Example 11

Subtract: (7y - 6) - (9b + 7)

Given binomials are:

First Binomial = (7y - 6)
Second Binomial = (9b + 7)

Form subtraction expression:

(7y - 6) - (9b + 7)

Open brackets and change signs of second binomial:

7y - 6 - 9b - 7

Arrange like terms together:

7y - 9b - 6 - 7

Subtract like terms and simplify:

7y - 9b - 13

Hence, (7y - 6) - (9b + 7)= 7y - 9b - 13

Example 12

Subtract: (12a + 11) - (27x + 2)

Given binomials are:

First Binomial = (12a + 11)

Second Binomial = (27x + 2)

Form subtraction expression:

(12a + 11) - (27x + 2)

Open brackets and change signs of second binomial:

12a + 11 - 27x - 2

Arrange like terms together:

12a - 27x + 11 - 2

Subtract like terms and simplify:

12a - 27x + 9

Hence, (12a + 11) - (27x + 2)= 12a - 27x + 9

Example 13

Subtract: (16y - 10) - (14a - 2)

Given binomials are:

First Binomial = (16y - 10)
Second Binomial = (14a - 2)

Form subtraction expression:

(16y - 10) - (14a - 2)

Open brackets and change signs of second binomial:

16y - 10 - 14a + 2

Arrange like terms together:

16y - 14a - 10 + 2

Subtract like terms and simplify:

16y - 14a - 8

Hence, (16y - 10) - (14a - 2)= 16y - 14a - 8

Example 14

Subtract: (14b - 12) - (29a - 11)

Given binomials are:

First Binomial = (14b - 12)
Second Binomial = (29a - 11)

Form subtraction expression:

(14b - 12) - (29a - 11)

Open brackets and change signs of second binomial:

14b - 12 - 29a + 11

Arrange like terms together:

14b - 29a - 12 + 11

Subtract like terms and simplify:

14b - 29a - 1

Hence, (14b - 12) - (29a - 11)= 14b - 29a - 1

Example 15

Subtract: (30x + 4) - (19x + 6)

Given binomials are:

First Binomial = (30x + 4)
Second Binomial = (19x + 6)

Form subtraction expression:

(30x + 4) - (19x + 6)

Open brackets and change signs of second binomial:

30x + 4 - 19x - 6

Arrange like terms together:

30x - 19x + 4 - 6

Subtract like terms and simplify:

11x - 2

Hence, (30x + 4) - (19x + 6)= 11x - 2

Example 16

Subtract: (19b + 7) - (5b - 11)

Given binomials are:

First Binomial = (19b + 7)
Second Binomial = (5b - 11)

Form subtraction expression:

(19b + 7) - (5b - 11)

Open brackets and change signs of second binomial:

19b + 7 - 5b + 11

Arrange like terms together:

19b - 5b + 7 + 11

Subtract like terms and simplify:

14b + 18

Hence, (19b + 7) - (5b - 11)= 14b + 18

Example 17

Subtract: (6b - 3) - (20b + 3)

Given binomials are:

First Binomial = (6b - 3)
Second Binomial = (20b + 3)

Form subtraction expression:

(6b - 3) - (20b + 3)

Open brackets and change signs of second binomial:

6b - 3 - 20b - 3

Arrange like terms together:

6b - 20b - 3 - 3

Subtract like terms and simplify:

-14b - 6

Hence, (6b - 3) - (20b + 3)= -14b - 6

Example 18

Subtract: (16x - 10) - (16b + 12)

Given binomials are:

First Binomial = (16x - 10)
Second Binomial = (16b + 12)

Form subtraction expression:

(16x - 10) - (16b + 12)

Open brackets and change signs of second binomial:

16x - 10 - 16b - 12

Arrange like terms together:

16x - 16b - 10 - 12

Subtract like terms and simplify:

16x - 16b - 22

Hence, (16x - 10) - (16b + 12)= 16x - 16b - 22

Example 19

Subtract: (15a - 12) - (7a - 14)

Given binomials are:

First Binomial = (15a - 12)
Second Binomial = (7a - 14)

Form subtraction expression:

(15a - 12) - (7a - 14)

Open brackets and change signs of second binomial:

15a - 12 - 7a + 14

Arrange like terms together:

15a - 7a - 12 + 14

Subtract like terms and simplify:

8a + 2

Hence, (15a - 12) - (7a - 14)= 8a + 2

Example 20

Subtract: (14b - 11) - (6b + 2)

Given binomials are:

First Binomial = (14b - 11)

Second Binomial = (6b + 2)

Form subtraction expression:

(14b - 11) - (6b + 2)

Open brackets and change signs of second binomial:

14b - 11 - 6b - 2

Arrange like terms together:

14b - 6b - 11 - 2

Subtract like terms and simplify:

8b - 13

Hence, (14b - 11) - (6b + 2)= 8b - 13