Subtraction of Binomials Solved Examples

Example 1

Subtract: (21b + 3) - (23b + 12)

Given binomials are:

First Binomial = (21b + 3)
Second Binomial = (23b + 12)

Form subtraction expression:

(21b + 3) - (23b + 12)

Open brackets and change signs of second binomial:

21b + 3 - 23b - 12

Arrange like terms together:

21b - 23b + 3 - 12

Subtract like terms and simplify:

-2b - 9

Hence, (21b + 3) - (23b + 12)= -2b - 9

Example 2

Subtract: (13b - 9) - (19b + 7)

Given binomials are:

First Binomial = (13b - 9)
Second Binomial = (19b + 7)

Form subtraction expression:

(13b - 9) - (19b + 7)

Open brackets and change signs of second binomial:

13b - 9 - 19b - 7

Arrange like terms together:

13b - 19b - 9 - 7

Subtract like terms and simplify:

-6b - 16

Hence, (13b - 9) - (19b + 7)= -6b - 16

Example 3

Subtract: (13b + 9) - (18b - 10)

Given binomials are:

First Binomial = (13b + 9)
Second Binomial = (18b - 10)

Form subtraction expression:

(13b + 9) - (18b - 10)

Open brackets and change signs of second binomial:

13b + 9 - 18b + 10

Arrange like terms together:

13b - 18b + 9 + 10

Subtract like terms and simplify:

-5b + 19

Hence, (13b + 9) - (18b - 10)= -5b + 19

Example 4

Subtract: (19b + 10) - (29p + 12)

Given binomials are:

First Binomial = (19b + 10)
Second Binomial = (29p + 12)

Form subtraction expression:

(19b + 10) - (29p + 12)

Open brackets and change signs of second binomial:

19b + 10 - 29p - 12

Arrange like terms together:

19b - 29p + 10 - 12

Subtract like terms and simplify:

19b - 29p - 2

Hence, (19b + 10) - (29p + 12)= 19b - 29p - 2

Example 5

Subtract: (20y + 4) - (27y - 13)

Given binomials are:

First Binomial = (20y + 4)
Second Binomial = (27y - 13)

Form subtraction expression:

(20y + 4) - (27y - 13)

Open brackets and change signs of second binomial:

20y + 4 - 27y + 13

Arrange like terms together:

20y - 27y + 4 + 13

Subtract like terms and simplify:

-7y + 17

Hence, (20y + 4) - (27y - 13)= -7y + 17

Example 6

Subtract: (25b - 2) - (22b - 3)

Given binomials are:

First Binomial = (25b - 2)
Second Binomial = (22b - 3)

Form subtraction expression:

(25b - 2) - (22b - 3)

Open brackets and change signs of second binomial:

25b - 2 - 22b + 3

Arrange like terms together:

25b - 22b - 2 + 3

Subtract like terms and simplify:

3b + 1

Hence, (25b - 2) - (22b - 3)= 3b + 1

Example 7

Subtract: (22p - 15) - (22p + 4)

Given binomials are:

First Binomial = (22p - 15)
Second Binomial = (22p + 4)

Form subtraction expression:

(22p - 15) - (22p + 4)

Open brackets and change signs of second binomial:

22p - 15 - 22p - 4

Arrange like terms together:

22p - 22p - 15 - 4

Subtract like terms and simplify:

0p - 19

Hence, (22p - 15) - (22p + 4)= 0p - 19

Example 8

Subtract: (6b - 9) - (9p - 13)

Given binomials are:

First Binomial = (6b - 9)
Second Binomial = (9p - 13)

Form subtraction expression:

(6b - 9) - (9p - 13)

Open brackets and change signs of second binomial:

6b - 9 - 9p + 13

Arrange like terms together:

6b - 9p - 9 + 13

Subtract like terms and simplify:

6b - 9p + 4

Hence, (6b - 9) - (9p - 13)= 6b - 9p + 4

Example 9

Subtract: (7p - 9) - (21p - 15)

Given binomials are:

First Binomial = (7p - 9)
Second Binomial = (21p - 15)

Form subtraction expression:

(7p - 9) - (21p - 15)

Open brackets and change signs of second binomial:

7p - 9 - 21p + 15

Arrange like terms together:

7p - 21p - 9 + 15

Subtract like terms and simplify:

-14p + 6

Hence, (7p - 9) - (21p - 15)= -14p + 6

Example 10

Subtract: (29b - 3) - (20b - 6)

Given binomials are:

First Binomial = (29b - 3)
Second Binomial = (20b - 6)

Form subtraction expression:

(29b - 3) - (20b - 6)

Open brackets and change signs of second binomial:

29b - 3 - 20b + 6

Arrange like terms together:

29b - 20b - 3 + 6

Subtract like terms and simplify:

9b + 3

Hence, (29b - 3) - (20b - 6)= 9b + 3

Example 11

Subtract: (16m + 14) - (15m - 3)

Given binomials are:

First Binomial = (16m + 14)
Second Binomial = (15m - 3)

Form subtraction expression:

(16m + 14) - (15m - 3)

Open brackets and change signs of second binomial:

16m + 14 - 15m + 3

Arrange like terms together:

16m - 15m + 14 + 3

Subtract like terms and simplify:

1m + 17

Hence, (16m + 14) - (15m - 3)= 1m + 17

Example 12

Subtract: (24x + 5) - (25a - 3)

Given binomials are:

First Binomial = (24x + 5)

Second Binomial = (25a - 3)

Form subtraction expression:

(24x + 5) - (25a - 3)

Open brackets and change signs of second binomial:

24x + 5 - 25a + 3

Arrange like terms together:

24x - 25a + 5 + 3

Subtract like terms and simplify:

24x - 25a + 8

Hence, (24x + 5) - (25a - 3)= 24x - 25a + 8

Example 13

Subtract: (18y + 3) - (25a + 14)

Given binomials are:

First Binomial = (18y + 3)
Second Binomial = (25a + 14)

Form subtraction expression:

(18y + 3) - (25a + 14)

Open brackets and change signs of second binomial:

18y + 3 - 25a - 14

Arrange like terms together:

18y - 25a + 3 - 14

Subtract like terms and simplify:

18y - 25a - 11

Hence, (18y + 3) - (25a + 14)= 18y - 25a - 11

Example 14

Subtract: (15m + 6) - (29b + 7)

Given binomials are:

First Binomial = (15m + 6)
Second Binomial = (29b + 7)

Form subtraction expression:

(15m + 6) - (29b + 7)

Open brackets and change signs of second binomial:

15m + 6 - 29b - 7

Arrange like terms together:

15m - 29b + 6 - 7

Subtract like terms and simplify:

15m - 29b - 1

Hence, (15m + 6) - (29b + 7)= 15m - 29b - 1

Example 15

Subtract: (11x - 1) - (13x - 10)

Given binomials are:

First Binomial = (11x - 1)
Second Binomial = (13x - 10)

Form subtraction expression:

(11x - 1) - (13x - 10)

Open brackets and change signs of second binomial:

11x - 1 - 13x + 10

Arrange like terms together:

11x - 13x - 1 + 10

Subtract like terms and simplify:

-2x + 9

Hence, (11x - 1) - (13x - 10)= -2x + 9

Example 16

Subtract: (25m + 2) - (9p + 14)

Given binomials are:

First Binomial = (25m + 2)
Second Binomial = (9p + 14)

Form subtraction expression:

(25m + 2) - (9p + 14)

Open brackets and change signs of second binomial:

25m + 2 - 9p - 14

Arrange like terms together:

25m - 9p + 2 - 14

Subtract like terms and simplify:

25m - 9p - 12

Hence, (25m + 2) - (9p + 14)= 25m - 9p - 12

Example 17

Subtract: (19y + 13) - (13x + 12)

Given binomials are:

First Binomial = (19y + 13)
Second Binomial = (13x + 12)

Form subtraction expression:

(19y + 13) - (13x + 12)

Open brackets and change signs of second binomial:

19y + 13 - 13x - 12

Arrange like terms together:

19y - 13x + 13 - 12

Subtract like terms and simplify:

19y - 13x + 1

Hence, (19y + 13) - (13x + 12)= 19y - 13x + 1

Example 18

Subtract: (16a + 7) - (13a - 2)

Given binomials are:

First Binomial = (16a + 7)
Second Binomial = (13a - 2)

Form subtraction expression:

(16a + 7) - (13a - 2)

Open brackets and change signs of second binomial:

16a + 7 - 13a + 2

Arrange like terms together:

16a - 13a + 7 + 2

Subtract like terms and simplify:

3a + 9

Hence, (16a + 7) - (13a - 2)= 3a + 9

Example 19

Subtract: (12a - 8) - (30a + 11)

Given binomials are:

First Binomial = (12a - 8)
Second Binomial = (30a + 11)

Form subtraction expression:

(12a - 8) - (30a + 11)

Open brackets and change signs of second binomial:

12a - 8 - 30a - 11

Arrange like terms together:

12a - 30a - 8 - 11

Subtract like terms and simplify:

-18a - 19

Hence, (12a - 8) - (30a + 11)= -18a - 19

Example 20

Subtract: (22m + 6) - (7b - 12)

Given binomials are:

First Binomial = (22m + 6)

Second Binomial = (7b - 12)

Form subtraction expression:

(22m + 6) - (7b - 12)

Open brackets and change signs of second binomial:

22m + 6 - 7b + 12

Arrange like terms together:

22m - 7b + 6 + 12

Subtract like terms and simplify:

22m - 7b + 18

Hence, (22m + 6) - (7b - 12)= 22m - 7b + 18