Subtraction of Binomials Solved Examples

Example 1

Subtract: (24x + 15) - (18b + 9)

Given binomials are:

First Binomial = (24x + 15)
Second Binomial = (18b + 9)

Form subtraction expression:

(24x + 15) - (18b + 9)

Open brackets and change signs of second binomial:

24x + 15 - 18b - 9

Arrange like terms together:

24x - 18b + 15 - 9

Subtract like terms and simplify:

24x - 18b + 6

Hence, (24x + 15) - (18b + 9)= 24x - 18b + 6

Example 2

Subtract: (12a + 4) - (17y + 15)

Given binomials are:

First Binomial = (12a + 4)
Second Binomial = (17y + 15)

Form subtraction expression:

(12a + 4) - (17y + 15)

Open brackets and change signs of second binomial:

12a + 4 - 17y - 15

Arrange like terms together:

12a - 17y + 4 - 15

Subtract like terms and simplify:

12a - 17y - 11

Hence, (12a + 4) - (17y + 15)= 12a - 17y - 11

Example 3

Subtract: (26a - 15) - (9p + 4)

Given binomials are:

First Binomial = (26a - 15)
Second Binomial = (9p + 4)

Form subtraction expression:

(26a - 15) - (9p + 4)

Open brackets and change signs of second binomial:

26a - 15 - 9p - 4

Arrange like terms together:

26a - 9p - 15 - 4

Subtract like terms and simplify:

26a - 9p - 19

Hence, (26a - 15) - (9p + 4)= 26a - 9p - 19

Example 4

Subtract: (11b - 15) - (29b - 13)

Given binomials are:

First Binomial = (11b - 15)
Second Binomial = (29b - 13)

Form subtraction expression:

(11b - 15) - (29b - 13)

Open brackets and change signs of second binomial:

11b - 15 - 29b + 13

Arrange like terms together:

11b - 29b - 15 + 13

Subtract like terms and simplify:

-18b - 2

Hence, (11b - 15) - (29b - 13)= -18b - 2

Example 5

Subtract: (14b - 4) - (5b - 2)

Given binomials are:

First Binomial = (14b - 4)
Second Binomial = (5b - 2)

Form subtraction expression:

(14b - 4) - (5b - 2)

Open brackets and change signs of second binomial:

14b - 4 - 5b + 2

Arrange like terms together:

14b - 5b - 4 + 2

Subtract like terms and simplify:

9b - 2

Hence, (14b - 4) - (5b - 2)= 9b - 2

Example 6

Subtract: (23y - 8) - (24y - 8)

Given binomials are:

First Binomial = (23y - 8)
Second Binomial = (24y - 8)

Form subtraction expression:

(23y - 8) - (24y - 8)

Open brackets and change signs of second binomial:

23y - 8 - 24y + 8

Arrange like terms together:

23y - 24y - 8 + 8

Subtract like terms and simplify:

-1y

Hence, (23y - 8) - (24y - 8)= -1y

Example 7

Subtract: (19x - 2) - (29x + 5)

Given binomials are:

First Binomial = (19x - 2)
Second Binomial = (29x + 5)

Form subtraction expression:

(19x - 2) - (29x + 5)

Open brackets and change signs of second binomial:

19x - 2 - 29x - 5

Arrange like terms together:

19x - 29x - 2 - 5

Subtract like terms and simplify:

-10x - 7

Hence, (19x - 2) - (29x + 5)= -10x - 7

Example 8

Subtract: (16m - 6) - (24x - 4)

Given binomials are:

First Binomial = (16m - 6)
Second Binomial = (24x - 4)

Form subtraction expression:

(16m - 6) - (24x - 4)

Open brackets and change signs of second binomial:

16m - 6 - 24x + 4

Arrange like terms together:

16m - 24x - 6 + 4

Subtract like terms and simplify:

16m - 24x - 2

Hence, (16m - 6) - (24x - 4)= 16m - 24x - 2

Example 9

Subtract: (8x + 12) - (9m - 14)

Given binomials are:

First Binomial = (8x + 12)
Second Binomial = (9m - 14)

Form subtraction expression:

(8x + 12) - (9m - 14)

Open brackets and change signs of second binomial:

8x + 12 - 9m + 14

Arrange like terms together:

8x - 9m + 12 + 14

Subtract like terms and simplify:

8x - 9m + 26

Hence, (8x + 12) - (9m - 14)= 8x - 9m + 26

Example 10

Subtract: (15x + 14) - (22m - 14)

Given binomials are:

First Binomial = (15x + 14)
Second Binomial = (22m - 14)

Form subtraction expression:

(15x + 14) - (22m - 14)

Open brackets and change signs of second binomial:

15x + 14 - 22m + 14

Arrange like terms together:

15x - 22m + 14 + 14

Subtract like terms and simplify:

15x - 22m + 28

Hence, (15x + 14) - (22m - 14)= 15x - 22m + 28

Example 11

Subtract: (21p - 15) - (23p + 9)

Given binomials are:

First Binomial = (21p - 15)
Second Binomial = (23p + 9)

Form subtraction expression:

(21p - 15) - (23p + 9)

Open brackets and change signs of second binomial:

21p - 15 - 23p - 9

Arrange like terms together:

21p - 23p - 15 - 9

Subtract like terms and simplify:

-2p - 24

Hence, (21p - 15) - (23p + 9)= -2p - 24

Example 12

Subtract: (25b - 5) - (14b - 5)

Given binomials are:

First Binomial = (25b - 5)

Second Binomial = (14b - 5)

Form subtraction expression:

(25b - 5) - (14b - 5)

Open brackets and change signs of second binomial:

25b - 5 - 14b + 5

Arrange like terms together:

25b - 14b - 5 + 5

Subtract like terms and simplify:

11b

Hence, (25b - 5) - (14b - 5)= 11b

Example 13

Subtract: (15a - 3) - (6p + 1)

Given binomials are:

First Binomial = (15a - 3)
Second Binomial = (6p + 1)

Form subtraction expression:

(15a - 3) - (6p + 1)

Open brackets and change signs of second binomial:

15a - 3 - 6p - 1

Arrange like terms together:

15a - 6p - 3 - 1

Subtract like terms and simplify:

15a - 6p - 4

Hence, (15a - 3) - (6p + 1)= 15a - 6p - 4

Example 14

Subtract: (6a + 12) - (5x + 4)

Given binomials are:

First Binomial = (6a + 12)
Second Binomial = (5x + 4)

Form subtraction expression:

(6a + 12) - (5x + 4)

Open brackets and change signs of second binomial:

6a + 12 - 5x - 4

Arrange like terms together:

6a - 5x + 12 - 4

Subtract like terms and simplify:

6a - 5x + 8

Hence, (6a + 12) - (5x + 4)= 6a - 5x + 8

Example 15

Subtract: (11a + 4) - (19a - 1)

Given binomials are:

First Binomial = (11a + 4)
Second Binomial = (19a - 1)

Form subtraction expression:

(11a + 4) - (19a - 1)

Open brackets and change signs of second binomial:

11a + 4 - 19a + 1

Arrange like terms together:

11a - 19a + 4 + 1

Subtract like terms and simplify:

-8a + 5

Hence, (11a + 4) - (19a - 1)= -8a + 5

Example 16

Subtract: (12a - 8) - (26b - 6)

Given binomials are:

First Binomial = (12a - 8)
Second Binomial = (26b - 6)

Form subtraction expression:

(12a - 8) - (26b - 6)

Open brackets and change signs of second binomial:

12a - 8 - 26b + 6

Arrange like terms together:

12a - 26b - 8 + 6

Subtract like terms and simplify:

12a - 26b - 2

Hence, (12a - 8) - (26b - 6)= 12a - 26b - 2

Example 17

Subtract: (18x + 7) - (14m - 6)

Given binomials are:

First Binomial = (18x + 7)
Second Binomial = (14m - 6)

Form subtraction expression:

(18x + 7) - (14m - 6)

Open brackets and change signs of second binomial:

18x + 7 - 14m + 6

Arrange like terms together:

18x - 14m + 7 + 6

Subtract like terms and simplify:

18x - 14m + 13

Hence, (18x + 7) - (14m - 6)= 18x - 14m + 13

Example 18

Subtract: (16b + 3) - (21b + 10)

Given binomials are:

First Binomial = (16b + 3)
Second Binomial = (21b + 10)

Form subtraction expression:

(16b + 3) - (21b + 10)

Open brackets and change signs of second binomial:

16b + 3 - 21b - 10

Arrange like terms together:

16b - 21b + 3 - 10

Subtract like terms and simplify:

-5b - 7

Hence, (16b + 3) - (21b + 10)= -5b - 7

Example 19

Subtract: (14x + 5) - (20b - 8)

Given binomials are:

First Binomial = (14x + 5)
Second Binomial = (20b - 8)

Form subtraction expression:

(14x + 5) - (20b - 8)

Open brackets and change signs of second binomial:

14x + 5 - 20b + 8

Arrange like terms together:

14x - 20b + 5 + 8

Subtract like terms and simplify:

14x - 20b + 13

Hence, (14x + 5) - (20b - 8)= 14x - 20b + 13

Example 20

Subtract: (15y + 11) - (6y - 2)

Given binomials are:

First Binomial = (15y + 11)

Second Binomial = (6y - 2)

Form subtraction expression:

(15y + 11) - (6y - 2)

Open brackets and change signs of second binomial:

15y + 11 - 6y + 2

Arrange like terms together:

15y - 6y + 11 + 2

Subtract like terms and simplify:

9y + 13

Hence, (15y + 11) - (6y - 2)= 9y + 13