Subtraction of Binomials Solved Examples

Example 1

Subtract: (10p - 1) - (10p - 7)

Given binomials are:

First Binomial = (10p - 1)
Second Binomial = (10p - 7)

Form subtraction expression:

(10p - 1) - (10p - 7)

Open brackets and change signs of second binomial:

10p - 1 - 10p + 7

Arrange like terms together:

10p - 10p - 1 + 7

Subtract like terms and simplify:

0p + 6

Hence, (10p - 1) - (10p - 7)= 0p + 6

Example 2

Subtract: (11b + 14) - (16x - 11)

Given binomials are:

First Binomial = (11b + 14)
Second Binomial = (16x - 11)

Form subtraction expression:

(11b + 14) - (16x - 11)

Open brackets and change signs of second binomial:

11b + 14 - 16x + 11

Arrange like terms together:

11b - 16x + 14 + 11

Subtract like terms and simplify:

11b - 16x + 25

Hence, (11b + 14) - (16x - 11)= 11b - 16x + 25

Example 3

Subtract: (19x + 10) - (9x - 13)

Given binomials are:

First Binomial = (19x + 10)
Second Binomial = (9x - 13)

Form subtraction expression:

(19x + 10) - (9x - 13)

Open brackets and change signs of second binomial:

19x + 10 - 9x + 13

Arrange like terms together:

19x - 9x + 10 + 13

Subtract like terms and simplify:

10x + 23

Hence, (19x + 10) - (9x - 13)= 10x + 23

Example 4

Subtract: (14a - 4) - (25a + 13)

Given binomials are:

First Binomial = (14a - 4)
Second Binomial = (25a + 13)

Form subtraction expression:

(14a - 4) - (25a + 13)

Open brackets and change signs of second binomial:

14a - 4 - 25a - 13

Arrange like terms together:

14a - 25a - 4 - 13

Subtract like terms and simplify:

-11a - 17

Hence, (14a - 4) - (25a + 13)= -11a - 17

Example 5

Subtract: (17b + 12) - (16m + 13)

Given binomials are:

First Binomial = (17b + 12)
Second Binomial = (16m + 13)

Form subtraction expression:

(17b + 12) - (16m + 13)

Open brackets and change signs of second binomial:

17b + 12 - 16m - 13

Arrange like terms together:

17b - 16m + 12 - 13

Subtract like terms and simplify:

17b - 16m - 1

Hence, (17b + 12) - (16m + 13)= 17b - 16m - 1

Example 6

Subtract: (12b + 6) - (9b + 12)

Given binomials are:

First Binomial = (12b + 6)
Second Binomial = (9b + 12)

Form subtraction expression:

(12b + 6) - (9b + 12)

Open brackets and change signs of second binomial:

12b + 6 - 9b - 12

Arrange like terms together:

12b - 9b + 6 - 12

Subtract like terms and simplify:

3b - 6

Hence, (12b + 6) - (9b + 12)= 3b - 6

Example 7

Subtract: (17a - 7) - (18p + 14)

Given binomials are:

First Binomial = (17a - 7)
Second Binomial = (18p + 14)

Form subtraction expression:

(17a - 7) - (18p + 14)

Open brackets and change signs of second binomial:

17a - 7 - 18p - 14

Arrange like terms together:

17a - 18p - 7 - 14

Subtract like terms and simplify:

17a - 18p - 21

Hence, (17a - 7) - (18p + 14)= 17a - 18p - 21

Example 8

Subtract: (5b - 3) - (6p + 12)

Given binomials are:

First Binomial = (5b - 3)
Second Binomial = (6p + 12)

Form subtraction expression:

(5b - 3) - (6p + 12)

Open brackets and change signs of second binomial:

5b - 3 - 6p - 12

Arrange like terms together:

5b - 6p - 3 - 12

Subtract like terms and simplify:

5b - 6p - 15

Hence, (5b - 3) - (6p + 12)= 5b - 6p - 15

Example 9

Subtract: (8m - 15) - (26y - 12)

Given binomials are:

First Binomial = (8m - 15)
Second Binomial = (26y - 12)

Form subtraction expression:

(8m - 15) - (26y - 12)

Open brackets and change signs of second binomial:

8m - 15 - 26y + 12

Arrange like terms together:

8m - 26y - 15 + 12

Subtract like terms and simplify:

8m - 26y - 3

Hence, (8m - 15) - (26y - 12)= 8m - 26y - 3

Example 10

Subtract: (16p - 9) - (25a - 4)

Given binomials are:

First Binomial = (16p - 9)
Second Binomial = (25a - 4)

Form subtraction expression:

(16p - 9) - (25a - 4)

Open brackets and change signs of second binomial:

16p - 9 - 25a + 4

Arrange like terms together:

16p - 25a - 9 + 4

Subtract like terms and simplify:

16p - 25a - 5

Hence, (16p - 9) - (25a - 4)= 16p - 25a - 5

Example 11

Subtract: (18m - 13) - (20m - 2)

Given binomials are:

First Binomial = (18m - 13)
Second Binomial = (20m - 2)

Form subtraction expression:

(18m - 13) - (20m - 2)

Open brackets and change signs of second binomial:

18m - 13 - 20m + 2

Arrange like terms together:

18m - 20m - 13 + 2

Subtract like terms and simplify:

-2m - 11

Hence, (18m - 13) - (20m - 2)= -2m - 11

Example 12

Subtract: (21y + 8) - (18y + 7)

Given binomials are:

First Binomial = (21y + 8)

Second Binomial = (18y + 7)

Form subtraction expression:

(21y + 8) - (18y + 7)

Open brackets and change signs of second binomial:

21y + 8 - 18y - 7

Arrange like terms together:

21y - 18y + 8 - 7

Subtract like terms and simplify:

3y + 1

Hence, (21y + 8) - (18y + 7)= 3y + 1

Example 13

Subtract: (26y - 8) - (28y + 7)

Given binomials are:

First Binomial = (26y - 8)
Second Binomial = (28y + 7)

Form subtraction expression:

(26y - 8) - (28y + 7)

Open brackets and change signs of second binomial:

26y - 8 - 28y - 7

Arrange like terms together:

26y - 28y - 8 - 7

Subtract like terms and simplify:

-2y - 15

Hence, (26y - 8) - (28y + 7)= -2y - 15

Example 14

Subtract: (19a - 8) - (15x + 1)

Given binomials are:

First Binomial = (19a - 8)
Second Binomial = (15x + 1)

Form subtraction expression:

(19a - 8) - (15x + 1)

Open brackets and change signs of second binomial:

19a - 8 - 15x - 1

Arrange like terms together:

19a - 15x - 8 - 1

Subtract like terms and simplify:

19a - 15x - 9

Hence, (19a - 8) - (15x + 1)= 19a - 15x - 9

Example 15

Subtract: (11x + 4) - (26x + 13)

Given binomials are:

First Binomial = (11x + 4)
Second Binomial = (26x + 13)

Form subtraction expression:

(11x + 4) - (26x + 13)

Open brackets and change signs of second binomial:

11x + 4 - 26x - 13

Arrange like terms together:

11x - 26x + 4 - 13

Subtract like terms and simplify:

-15x - 9

Hence, (11x + 4) - (26x + 13)= -15x - 9

Example 16

Subtract: (7a + 1) - (16x + 1)

Given binomials are:

First Binomial = (7a + 1)
Second Binomial = (16x + 1)

Form subtraction expression:

(7a + 1) - (16x + 1)

Open brackets and change signs of second binomial:

7a + 1 - 16x - 1

Arrange like terms together:

7a - 16x + 1 - 1

Subtract like terms and simplify:

7a - 16x

Hence, (7a + 1) - (16x + 1)= 7a - 16x

Example 17

Subtract: (9b + 7) - (11b - 10)

Given binomials are:

First Binomial = (9b + 7)
Second Binomial = (11b - 10)

Form subtraction expression:

(9b + 7) - (11b - 10)

Open brackets and change signs of second binomial:

9b + 7 - 11b + 10

Arrange like terms together:

9b - 11b + 7 + 10

Subtract like terms and simplify:

-2b + 17

Hence, (9b + 7) - (11b - 10)= -2b + 17

Example 18

Subtract: (6p + 7) - (6x + 15)

Given binomials are:

First Binomial = (6p + 7)
Second Binomial = (6x + 15)

Form subtraction expression:

(6p + 7) - (6x + 15)

Open brackets and change signs of second binomial:

6p + 7 - 6x - 15

Arrange like terms together:

6p - 6x + 7 - 15

Subtract like terms and simplify:

6p - 6x - 8

Hence, (6p + 7) - (6x + 15)= 6p - 6x - 8

Example 19

Subtract: (24m - 15) - (8y - 5)

Given binomials are:

First Binomial = (24m - 15)
Second Binomial = (8y - 5)

Form subtraction expression:

(24m - 15) - (8y - 5)

Open brackets and change signs of second binomial:

24m - 15 - 8y + 5

Arrange like terms together:

24m - 8y - 15 + 5

Subtract like terms and simplify:

24m - 8y - 10

Hence, (24m - 15) - (8y - 5)= 24m - 8y - 10

Example 20

Subtract: (14m - 8) - (20b - 6)

Given binomials are:

First Binomial = (14m - 8)

Second Binomial = (20b - 6)

Form subtraction expression:

(14m - 8) - (20b - 6)

Open brackets and change signs of second binomial:

14m - 8 - 20b + 6

Arrange like terms together:

14m - 20b - 8 + 6

Subtract like terms and simplify:

14m - 20b - 2

Hence, (14m - 8) - (20b - 6)= 14m - 20b - 2