Subtraction of Binomials Solved Examples

Example 1

Subtract: (29p - 5) - (20p - 9)

Given binomials are:

First Binomial = (29p - 5)
Second Binomial = (20p - 9)

Form subtraction expression:

(29p - 5) - (20p - 9)

Open brackets and change signs of second binomial:

29p - 5 - 20p + 9

Arrange like terms together:

29p - 20p - 5 + 9

Subtract like terms and simplify:

9p + 4

Hence, (29p - 5) - (20p - 9)= 9p + 4

Example 2

Subtract: (9y + 9) - (26x - 5)

Given binomials are:

First Binomial = (9y + 9)
Second Binomial = (26x - 5)

Form subtraction expression:

(9y + 9) - (26x - 5)

Open brackets and change signs of second binomial:

9y + 9 - 26x + 5

Arrange like terms together:

9y - 26x + 9 + 5

Subtract like terms and simplify:

9y - 26x + 14

Hence, (9y + 9) - (26x - 5)= 9y - 26x + 14

Example 3

Subtract: (10m + 4) - (8m - 10)

Given binomials are:

First Binomial = (10m + 4)
Second Binomial = (8m - 10)

Form subtraction expression:

(10m + 4) - (8m - 10)

Open brackets and change signs of second binomial:

10m + 4 - 8m + 10

Arrange like terms together:

10m - 8m + 4 + 10

Subtract like terms and simplify:

2m + 14

Hence, (10m + 4) - (8m - 10)= 2m + 14

Example 4

Subtract: (8y - 10) - (30x + 9)

Given binomials are:

First Binomial = (8y - 10)
Second Binomial = (30x + 9)

Form subtraction expression:

(8y - 10) - (30x + 9)

Open brackets and change signs of second binomial:

8y - 10 - 30x - 9

Arrange like terms together:

8y - 30x - 10 - 9

Subtract like terms and simplify:

8y - 30x - 19

Hence, (8y - 10) - (30x + 9)= 8y - 30x - 19

Example 5

Subtract: (10x + 4) - (15x - 14)

Given binomials are:

First Binomial = (10x + 4)
Second Binomial = (15x - 14)

Form subtraction expression:

(10x + 4) - (15x - 14)

Open brackets and change signs of second binomial:

10x + 4 - 15x + 14

Arrange like terms together:

10x - 15x + 4 + 14

Subtract like terms and simplify:

-5x + 18

Hence, (10x + 4) - (15x - 14)= -5x + 18

Example 6

Subtract: (14a - 2) - (19m + 14)

Given binomials are:

First Binomial = (14a - 2)
Second Binomial = (19m + 14)

Form subtraction expression:

(14a - 2) - (19m + 14)

Open brackets and change signs of second binomial:

14a - 2 - 19m - 14

Arrange like terms together:

14a - 19m - 2 - 14

Subtract like terms and simplify:

14a - 19m - 16

Hence, (14a - 2) - (19m + 14)= 14a - 19m - 16

Example 7

Subtract: (11y + 14) - (11a - 2)

Given binomials are:

First Binomial = (11y + 14)
Second Binomial = (11a - 2)

Form subtraction expression:

(11y + 14) - (11a - 2)

Open brackets and change signs of second binomial:

11y + 14 - 11a + 2

Arrange like terms together:

11y - 11a + 14 + 2

Subtract like terms and simplify:

11y - 11a + 16

Hence, (11y + 14) - (11a - 2)= 11y - 11a + 16

Example 8

Subtract: (24x - 13) - (15b - 14)

Given binomials are:

First Binomial = (24x - 13)
Second Binomial = (15b - 14)

Form subtraction expression:

(24x - 13) - (15b - 14)

Open brackets and change signs of second binomial:

24x - 13 - 15b + 14

Arrange like terms together:

24x - 15b - 13 + 14

Subtract like terms and simplify:

24x - 15b + 1

Hence, (24x - 13) - (15b - 14)= 24x - 15b + 1

Example 9

Subtract: (17m + 13) - (26m - 7)

Given binomials are:

First Binomial = (17m + 13)
Second Binomial = (26m - 7)

Form subtraction expression:

(17m + 13) - (26m - 7)

Open brackets and change signs of second binomial:

17m + 13 - 26m + 7

Arrange like terms together:

17m - 26m + 13 + 7

Subtract like terms and simplify:

-9m + 20

Hence, (17m + 13) - (26m - 7)= -9m + 20

Example 10

Subtract: (18p + 12) - (18p - 5)

Given binomials are:

First Binomial = (18p + 12)
Second Binomial = (18p - 5)

Form subtraction expression:

(18p + 12) - (18p - 5)

Open brackets and change signs of second binomial:

18p + 12 - 18p + 5

Arrange like terms together:

18p - 18p + 12 + 5

Subtract like terms and simplify:

0p + 17

Hence, (18p + 12) - (18p - 5)= 0p + 17

Example 11

Subtract: (11b + 4) - (22b - 2)

Given binomials are:

First Binomial = (11b + 4)
Second Binomial = (22b - 2)

Form subtraction expression:

(11b + 4) - (22b - 2)

Open brackets and change signs of second binomial:

11b + 4 - 22b + 2

Arrange like terms together:

11b - 22b + 4 + 2

Subtract like terms and simplify:

-11b + 6

Hence, (11b + 4) - (22b - 2)= -11b + 6

Example 12

Subtract: (19x - 10) - (8m + 4)

Given binomials are:

First Binomial = (19x - 10)

Second Binomial = (8m + 4)

Form subtraction expression:

(19x - 10) - (8m + 4)

Open brackets and change signs of second binomial:

19x - 10 - 8m - 4

Arrange like terms together:

19x - 8m - 10 - 4

Subtract like terms and simplify:

19x - 8m - 14

Hence, (19x - 10) - (8m + 4)= 19x - 8m - 14

Example 13

Subtract: (7a - 3) - (20a + 7)

Given binomials are:

First Binomial = (7a - 3)
Second Binomial = (20a + 7)

Form subtraction expression:

(7a - 3) - (20a + 7)

Open brackets and change signs of second binomial:

7a - 3 - 20a - 7

Arrange like terms together:

7a - 20a - 3 - 7

Subtract like terms and simplify:

-13a - 10

Hence, (7a - 3) - (20a + 7)= -13a - 10

Example 14

Subtract: (20y - 13) - (18a - 9)

Given binomials are:

First Binomial = (20y - 13)
Second Binomial = (18a - 9)

Form subtraction expression:

(20y - 13) - (18a - 9)

Open brackets and change signs of second binomial:

20y - 13 - 18a + 9

Arrange like terms together:

20y - 18a - 13 + 9

Subtract like terms and simplify:

20y - 18a - 4

Hence, (20y - 13) - (18a - 9)= 20y - 18a - 4

Example 15

Subtract: (19y - 4) - (10a - 7)

Given binomials are:

First Binomial = (19y - 4)
Second Binomial = (10a - 7)

Form subtraction expression:

(19y - 4) - (10a - 7)

Open brackets and change signs of second binomial:

19y - 4 - 10a + 7

Arrange like terms together:

19y - 10a - 4 + 7

Subtract like terms and simplify:

19y - 10a + 3

Hence, (19y - 4) - (10a - 7)= 19y - 10a + 3

Example 16

Subtract: (7x - 5) - (16x - 7)

Given binomials are:

First Binomial = (7x - 5)
Second Binomial = (16x - 7)

Form subtraction expression:

(7x - 5) - (16x - 7)

Open brackets and change signs of second binomial:

7x - 5 - 16x + 7

Arrange like terms together:

7x - 16x - 5 + 7

Subtract like terms and simplify:

-9x + 2

Hence, (7x - 5) - (16x - 7)= -9x + 2

Example 17

Subtract: (18a - 5) - (7a + 5)

Given binomials are:

First Binomial = (18a - 5)
Second Binomial = (7a + 5)

Form subtraction expression:

(18a - 5) - (7a + 5)

Open brackets and change signs of second binomial:

18a - 5 - 7a - 5

Arrange like terms together:

18a - 7a - 5 - 5

Subtract like terms and simplify:

11a - 10

Hence, (18a - 5) - (7a + 5)= 11a - 10

Example 18

Subtract: (29p - 13) - (9p + 14)

Given binomials are:

First Binomial = (29p - 13)
Second Binomial = (9p + 14)

Form subtraction expression:

(29p - 13) - (9p + 14)

Open brackets and change signs of second binomial:

29p - 13 - 9p - 14

Arrange like terms together:

29p - 9p - 13 - 14

Subtract like terms and simplify:

20p - 27

Hence, (29p - 13) - (9p + 14)= 20p - 27

Example 19

Subtract: (23b + 14) - (13b + 6)

Given binomials are:

First Binomial = (23b + 14)
Second Binomial = (13b + 6)

Form subtraction expression:

(23b + 14) - (13b + 6)

Open brackets and change signs of second binomial:

23b + 14 - 13b - 6

Arrange like terms together:

23b - 13b + 14 - 6

Subtract like terms and simplify:

10b + 8

Hence, (23b + 14) - (13b + 6)= 10b + 8

Example 20

Subtract: (22x + 11) - (15x + 6)

Given binomials are:

First Binomial = (22x + 11)

Second Binomial = (15x + 6)

Form subtraction expression:

(22x + 11) - (15x + 6)

Open brackets and change signs of second binomial:

22x + 11 - 15x - 6

Arrange like terms together:

22x - 15x + 11 - 6

Subtract like terms and simplify:

7x + 5

Hence, (22x + 11) - (15x + 6)= 7x + 5