Subtraction of Binomials Solved Examples

Example 1

Subtract: (24m + 4) - (28m - 2)

Given binomials are:

First Binomial = (24m + 4)
Second Binomial = (28m - 2)

Form subtraction expression:

(24m + 4) - (28m - 2)

Open brackets and change signs of second binomial:

24m + 4 - 28m + 2

Arrange like terms together:

24m - 28m + 4 + 2

Subtract like terms and simplify:

-4m + 6

Hence, (24m + 4) - (28m - 2)= -4m + 6

Example 2

Subtract: (18y - 8) - (20b - 9)

Given binomials are:

First Binomial = (18y - 8)
Second Binomial = (20b - 9)

Form subtraction expression:

(18y - 8) - (20b - 9)

Open brackets and change signs of second binomial:

18y - 8 - 20b + 9

Arrange like terms together:

18y - 20b - 8 + 9

Subtract like terms and simplify:

18y - 20b + 1

Hence, (18y - 8) - (20b - 9)= 18y - 20b + 1

Example 3

Subtract: (19y - 10) - (23b + 14)

Given binomials are:

First Binomial = (19y - 10)
Second Binomial = (23b + 14)

Form subtraction expression:

(19y - 10) - (23b + 14)

Open brackets and change signs of second binomial:

19y - 10 - 23b - 14

Arrange like terms together:

19y - 23b - 10 - 14

Subtract like terms and simplify:

19y - 23b - 24

Hence, (19y - 10) - (23b + 14)= 19y - 23b - 24

Example 4

Subtract: (24p - 6) - (10y - 3)

Given binomials are:

First Binomial = (24p - 6)
Second Binomial = (10y - 3)

Form subtraction expression:

(24p - 6) - (10y - 3)

Open brackets and change signs of second binomial:

24p - 6 - 10y + 3

Arrange like terms together:

24p - 10y - 6 + 3

Subtract like terms and simplify:

24p - 10y - 3

Hence, (24p - 6) - (10y - 3)= 24p - 10y - 3

Example 5

Subtract: (21x + 15) - (21x + 3)

Given binomials are:

First Binomial = (21x + 15)
Second Binomial = (21x + 3)

Form subtraction expression:

(21x + 15) - (21x + 3)

Open brackets and change signs of second binomial:

21x + 15 - 21x - 3

Arrange like terms together:

21x - 21x + 15 - 3

Subtract like terms and simplify:

0x + 12

Hence, (21x + 15) - (21x + 3)= 0x + 12

Example 6

Subtract: (23a - 13) - (12p + 3)

Given binomials are:

First Binomial = (23a - 13)
Second Binomial = (12p + 3)

Form subtraction expression:

(23a - 13) - (12p + 3)

Open brackets and change signs of second binomial:

23a - 13 - 12p - 3

Arrange like terms together:

23a - 12p - 13 - 3

Subtract like terms and simplify:

23a - 12p - 16

Hence, (23a - 13) - (12p + 3)= 23a - 12p - 16

Example 7

Subtract: (21p - 14) - (19p + 3)

Given binomials are:

First Binomial = (21p - 14)
Second Binomial = (19p + 3)

Form subtraction expression:

(21p - 14) - (19p + 3)

Open brackets and change signs of second binomial:

21p - 14 - 19p - 3

Arrange like terms together:

21p - 19p - 14 - 3

Subtract like terms and simplify:

2p - 17

Hence, (21p - 14) - (19p + 3)= 2p - 17

Example 8

Subtract: (23x + 8) - (16b + 10)

Given binomials are:

First Binomial = (23x + 8)
Second Binomial = (16b + 10)

Form subtraction expression:

(23x + 8) - (16b + 10)

Open brackets and change signs of second binomial:

23x + 8 - 16b - 10

Arrange like terms together:

23x - 16b + 8 - 10

Subtract like terms and simplify:

23x - 16b - 2

Hence, (23x + 8) - (16b + 10)= 23x - 16b - 2

Example 9

Subtract: (7x - 4) - (17x + 15)

Given binomials are:

First Binomial = (7x - 4)
Second Binomial = (17x + 15)

Form subtraction expression:

(7x - 4) - (17x + 15)

Open brackets and change signs of second binomial:

7x - 4 - 17x - 15

Arrange like terms together:

7x - 17x - 4 - 15

Subtract like terms and simplify:

-10x - 19

Hence, (7x - 4) - (17x + 15)= -10x - 19

Example 10

Subtract: (20x - 3) - (13x - 1)

Given binomials are:

First Binomial = (20x - 3)
Second Binomial = (13x - 1)

Form subtraction expression:

(20x - 3) - (13x - 1)

Open brackets and change signs of second binomial:

20x - 3 - 13x + 1

Arrange like terms together:

20x - 13x - 3 + 1

Subtract like terms and simplify:

7x - 2

Hence, (20x - 3) - (13x - 1)= 7x - 2

Example 11

Subtract: (16y + 2) - (16x - 10)

Given binomials are:

First Binomial = (16y + 2)
Second Binomial = (16x - 10)

Form subtraction expression:

(16y + 2) - (16x - 10)

Open brackets and change signs of second binomial:

16y + 2 - 16x + 10

Arrange like terms together:

16y - 16x + 2 + 10

Subtract like terms and simplify:

16y - 16x + 12

Hence, (16y + 2) - (16x - 10)= 16y - 16x + 12

Example 12

Subtract: (17y - 13) - (18y - 3)

Given binomials are:

First Binomial = (17y - 13)

Second Binomial = (18y - 3)

Form subtraction expression:

(17y - 13) - (18y - 3)

Open brackets and change signs of second binomial:

17y - 13 - 18y + 3

Arrange like terms together:

17y - 18y - 13 + 3

Subtract like terms and simplify:

-1y - 10

Hence, (17y - 13) - (18y - 3)= -1y - 10

Example 13

Subtract: (22m - 15) - (22m - 8)

Given binomials are:

First Binomial = (22m - 15)
Second Binomial = (22m - 8)

Form subtraction expression:

(22m - 15) - (22m - 8)

Open brackets and change signs of second binomial:

22m - 15 - 22m + 8

Arrange like terms together:

22m - 22m - 15 + 8

Subtract like terms and simplify:

0m - 7

Hence, (22m - 15) - (22m - 8)= 0m - 7

Example 14

Subtract: (16y + 9) - (28m - 8)

Given binomials are:

First Binomial = (16y + 9)
Second Binomial = (28m - 8)

Form subtraction expression:

(16y + 9) - (28m - 8)

Open brackets and change signs of second binomial:

16y + 9 - 28m + 8

Arrange like terms together:

16y - 28m + 9 + 8

Subtract like terms and simplify:

16y - 28m + 17

Hence, (16y + 9) - (28m - 8)= 16y - 28m + 17

Example 15

Subtract: (19a + 6) - (5p + 3)

Given binomials are:

First Binomial = (19a + 6)
Second Binomial = (5p + 3)

Form subtraction expression:

(19a + 6) - (5p + 3)

Open brackets and change signs of second binomial:

19a + 6 - 5p - 3

Arrange like terms together:

19a - 5p + 6 - 3

Subtract like terms and simplify:

19a - 5p + 3

Hence, (19a + 6) - (5p + 3)= 19a - 5p + 3

Example 16

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

Given binomials are:

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

Form subtraction expression:

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

Open brackets and change signs of second binomial:

6m + 6 - 7x + 7

Arrange like terms together:

6m - 7x + 6 + 7

Subtract like terms and simplify:

6m - 7x + 13

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

Example 17

Subtract: (14m - 13) - (11y + 10)

Given binomials are:

First Binomial = (14m - 13)
Second Binomial = (11y + 10)

Form subtraction expression:

(14m - 13) - (11y + 10)

Open brackets and change signs of second binomial:

14m - 13 - 11y - 10

Arrange like terms together:

14m - 11y - 13 - 10

Subtract like terms and simplify:

14m - 11y - 23

Hence, (14m - 13) - (11y + 10)= 14m - 11y - 23

Example 18

Subtract: (13b - 9) - (26m + 15)

Given binomials are:

First Binomial = (13b - 9)
Second Binomial = (26m + 15)

Form subtraction expression:

(13b - 9) - (26m + 15)

Open brackets and change signs of second binomial:

13b - 9 - 26m - 15

Arrange like terms together:

13b - 26m - 9 - 15

Subtract like terms and simplify:

13b - 26m - 24

Hence, (13b - 9) - (26m + 15)= 13b - 26m - 24

Example 19

Subtract: (26y - 3) - (27y + 14)

Given binomials are:

First Binomial = (26y - 3)
Second Binomial = (27y + 14)

Form subtraction expression:

(26y - 3) - (27y + 14)

Open brackets and change signs of second binomial:

26y - 3 - 27y - 14

Arrange like terms together:

26y - 27y - 3 - 14

Subtract like terms and simplify:

-1y - 17

Hence, (26y - 3) - (27y + 14)= -1y - 17

Example 20

Subtract: (10y - 7) - (29x + 6)

Given binomials are:

First Binomial = (10y - 7)

Second Binomial = (29x + 6)

Form subtraction expression:

(10y - 7) - (29x + 6)

Open brackets and change signs of second binomial:

10y - 7 - 29x - 6

Arrange like terms together:

10y - 29x - 7 - 6

Subtract like terms and simplify:

10y - 29x - 13

Hence, (10y - 7) - (29x + 6)= 10y - 29x - 13