Subtraction of Binomials Solved Examples

Example 1

Subtract: (17m - 2) - (20m + 5)

Given binomials are:

First Binomial = (17m - 2)
Second Binomial = (20m + 5)

Form subtraction expression:

(17m - 2) - (20m + 5)

Open brackets and change signs of second binomial:

17m - 2 - 20m - 5

Arrange like terms together:

17m - 20m - 2 - 5

Subtract like terms and simplify:

-3m - 7

Hence, (17m - 2) - (20m + 5)= -3m - 7

Example 2

Subtract: (5x + 15) - (6p + 1)

Given binomials are:

First Binomial = (5x + 15)
Second Binomial = (6p + 1)

Form subtraction expression:

(5x + 15) - (6p + 1)

Open brackets and change signs of second binomial:

5x + 15 - 6p - 1

Arrange like terms together:

5x - 6p + 15 - 1

Subtract like terms and simplify:

5x - 6p + 14

Hence, (5x + 15) - (6p + 1)= 5x - 6p + 14

Example 3

Subtract: (17m - 5) - (20m - 7)

Given binomials are:

First Binomial = (17m - 5)
Second Binomial = (20m - 7)

Form subtraction expression:

(17m - 5) - (20m - 7)

Open brackets and change signs of second binomial:

17m - 5 - 20m + 7

Arrange like terms together:

17m - 20m - 5 + 7

Subtract like terms and simplify:

-3m + 2

Hence, (17m - 5) - (20m - 7)= -3m + 2

Example 4

Subtract: (11p - 12) - (30x + 14)

Given binomials are:

First Binomial = (11p - 12)
Second Binomial = (30x + 14)

Form subtraction expression:

(11p - 12) - (30x + 14)

Open brackets and change signs of second binomial:

11p - 12 - 30x - 14

Arrange like terms together:

11p - 30x - 12 - 14

Subtract like terms and simplify:

11p - 30x - 26

Hence, (11p - 12) - (30x + 14)= 11p - 30x - 26

Example 5

Subtract: (29a + 10) - (16a - 5)

Given binomials are:

First Binomial = (29a + 10)
Second Binomial = (16a - 5)

Form subtraction expression:

(29a + 10) - (16a - 5)

Open brackets and change signs of second binomial:

29a + 10 - 16a + 5

Arrange like terms together:

29a - 16a + 10 + 5

Subtract like terms and simplify:

13a + 15

Hence, (29a + 10) - (16a - 5)= 13a + 15

Example 6

Subtract: (30a + 7) - (5a - 8)

Given binomials are:

First Binomial = (30a + 7)
Second Binomial = (5a - 8)

Form subtraction expression:

(30a + 7) - (5a - 8)

Open brackets and change signs of second binomial:

30a + 7 - 5a + 8

Arrange like terms together:

30a - 5a + 7 + 8

Subtract like terms and simplify:

25a + 15

Hence, (30a + 7) - (5a - 8)= 25a + 15

Example 7

Subtract: (27x - 9) - (23x - 8)

Given binomials are:

First Binomial = (27x - 9)
Second Binomial = (23x - 8)

Form subtraction expression:

(27x - 9) - (23x - 8)

Open brackets and change signs of second binomial:

27x - 9 - 23x + 8

Arrange like terms together:

27x - 23x - 9 + 8

Subtract like terms and simplify:

4x - 1

Hence, (27x - 9) - (23x - 8)= 4x - 1

Example 8

Subtract: (27b - 8) - (15m - 12)

Given binomials are:

First Binomial = (27b - 8)
Second Binomial = (15m - 12)

Form subtraction expression:

(27b - 8) - (15m - 12)

Open brackets and change signs of second binomial:

27b - 8 - 15m + 12

Arrange like terms together:

27b - 15m - 8 + 12

Subtract like terms and simplify:

27b - 15m + 4

Hence, (27b - 8) - (15m - 12)= 27b - 15m + 4

Example 9

Subtract: (5a - 13) - (20a + 5)

Given binomials are:

First Binomial = (5a - 13)
Second Binomial = (20a + 5)

Form subtraction expression:

(5a - 13) - (20a + 5)

Open brackets and change signs of second binomial:

5a - 13 - 20a - 5

Arrange like terms together:

5a - 20a - 13 - 5

Subtract like terms and simplify:

-15a - 18

Hence, (5a - 13) - (20a + 5)= -15a - 18

Example 10

Subtract: (25p + 6) - (13p - 6)

Given binomials are:

First Binomial = (25p + 6)
Second Binomial = (13p - 6)

Form subtraction expression:

(25p + 6) - (13p - 6)

Open brackets and change signs of second binomial:

25p + 6 - 13p + 6

Arrange like terms together:

25p - 13p + 6 + 6

Subtract like terms and simplify:

12p + 12

Hence, (25p + 6) - (13p - 6)= 12p + 12

Example 11

Subtract: (22m + 6) - (17b + 11)

Given binomials are:

First Binomial = (22m + 6)
Second Binomial = (17b + 11)

Form subtraction expression:

(22m + 6) - (17b + 11)

Open brackets and change signs of second binomial:

22m + 6 - 17b - 11

Arrange like terms together:

22m - 17b + 6 - 11

Subtract like terms and simplify:

22m - 17b - 5

Hence, (22m + 6) - (17b + 11)= 22m - 17b - 5

Example 12

Subtract: (7b + 10) - (12b - 7)

Given binomials are:

First Binomial = (7b + 10)

Second Binomial = (12b - 7)

Form subtraction expression:

(7b + 10) - (12b - 7)

Open brackets and change signs of second binomial:

7b + 10 - 12b + 7

Arrange like terms together:

7b - 12b + 10 + 7

Subtract like terms and simplify:

-5b + 17

Hence, (7b + 10) - (12b - 7)= -5b + 17

Example 13

Subtract: (7p - 10) - (28p - 11)

Given binomials are:

First Binomial = (7p - 10)
Second Binomial = (28p - 11)

Form subtraction expression:

(7p - 10) - (28p - 11)

Open brackets and change signs of second binomial:

7p - 10 - 28p + 11

Arrange like terms together:

7p - 28p - 10 + 11

Subtract like terms and simplify:

-21p + 1

Hence, (7p - 10) - (28p - 11)= -21p + 1

Example 14

Subtract: (22a + 10) - (26a - 13)

Given binomials are:

First Binomial = (22a + 10)
Second Binomial = (26a - 13)

Form subtraction expression:

(22a + 10) - (26a - 13)

Open brackets and change signs of second binomial:

22a + 10 - 26a + 13

Arrange like terms together:

22a - 26a + 10 + 13

Subtract like terms and simplify:

-4a + 23

Hence, (22a + 10) - (26a - 13)= -4a + 23

Example 15

Subtract: (11p + 10) - (5y - 14)

Given binomials are:

First Binomial = (11p + 10)
Second Binomial = (5y - 14)

Form subtraction expression:

(11p + 10) - (5y - 14)

Open brackets and change signs of second binomial:

11p + 10 - 5y + 14

Arrange like terms together:

11p - 5y + 10 + 14

Subtract like terms and simplify:

11p - 5y + 24

Hence, (11p + 10) - (5y - 14)= 11p - 5y + 24

Example 16

Subtract: (6a + 4) - (17a + 8)

Given binomials are:

First Binomial = (6a + 4)
Second Binomial = (17a + 8)

Form subtraction expression:

(6a + 4) - (17a + 8)

Open brackets and change signs of second binomial:

6a + 4 - 17a - 8

Arrange like terms together:

6a - 17a + 4 - 8

Subtract like terms and simplify:

-11a - 4

Hence, (6a + 4) - (17a + 8)= -11a - 4

Example 17

Subtract: (12p + 9) - (24m + 2)

Given binomials are:

First Binomial = (12p + 9)
Second Binomial = (24m + 2)

Form subtraction expression:

(12p + 9) - (24m + 2)

Open brackets and change signs of second binomial:

12p + 9 - 24m - 2

Arrange like terms together:

12p - 24m + 9 - 2

Subtract like terms and simplify:

12p - 24m + 7

Hence, (12p + 9) - (24m + 2)= 12p - 24m + 7

Example 18

Subtract: (17m + 12) - (23m + 4)

Given binomials are:

First Binomial = (17m + 12)
Second Binomial = (23m + 4)

Form subtraction expression:

(17m + 12) - (23m + 4)

Open brackets and change signs of second binomial:

17m + 12 - 23m - 4

Arrange like terms together:

17m - 23m + 12 - 4

Subtract like terms and simplify:

-6m + 8

Hence, (17m + 12) - (23m + 4)= -6m + 8

Example 19

Subtract: (26p + 7) - (29m + 13)

Given binomials are:

First Binomial = (26p + 7)
Second Binomial = (29m + 13)

Form subtraction expression:

(26p + 7) - (29m + 13)

Open brackets and change signs of second binomial:

26p + 7 - 29m - 13

Arrange like terms together:

26p - 29m + 7 - 13

Subtract like terms and simplify:

26p - 29m - 6

Hence, (26p + 7) - (29m + 13)= 26p - 29m - 6

Example 20

Subtract: (8a - 13) - (28y + 11)

Given binomials are:

First Binomial = (8a - 13)

Second Binomial = (28y + 11)

Form subtraction expression:

(8a - 13) - (28y + 11)

Open brackets and change signs of second binomial:

8a - 13 - 28y - 11

Arrange like terms together:

8a - 28y - 13 - 11

Subtract like terms and simplify:

8a - 28y - 24

Hence, (8a - 13) - (28y + 11)= 8a - 28y - 24