

Preview Unit 5 Practice quiz

Start again

Questions ?

i	1	2	3	4
5	6	7	8	9
10	11	12	13	14
15				

[End test...](#)

1

Marks: --/1

3 tries allowed

Evaluate the following expression when $x = 2$ and $y = -5$.

$$4x - 2(y + 3)$$

Enter your answer in the box below.

Check

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Questions ?

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[End test...](#)

2

Marks: --/1

3 tries allowed

Choose the options that are the coefficients of terms of the expression

$$a^2 + 3a - 9a^2 - 9 - 9a$$

when all of the like terms are collected.

Coefficient of a^2


Coefficient of a

Constant coefficient

Check

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i	1	2	3	4
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15				

[End test...](#)**1** 

Marks: 1/1

Completed

Evaluate the following expression when $x = 2$ and $y = -5$.

$$4x - 2(y + 3)$$

Enter your answer in the box below.

Your answer is correct.

If $x = 2$ and $y = -5$, then

$$\begin{aligned}4x - 2(y + 3) &= 4 \times 2 - 2 \times (-2) \\ &= 8 + 4 \\ &= 12\end{aligned}$$

So the answer is 12.

See Unit 5, Subsection 2.1.

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[End test...](#)

2 

Marks: 1/1

Completed

Choose the options that are the coefficients of terms of the expression

$$a^2 + 3a - 9a^2 - 9 - 9a$$

when all of the like terms are collected.

Coefficient of a^2

-8

Coefficient of a

-6

Constant coefficient

-9

All your answers are correct.

To simplify the given expression, first group the like terms and then collect them:

$$\begin{aligned} a^2 + 3a - 9a^2 - 9 - 9a &= (a^2 - 9a^2) + (3a - 9a) + (-9) \\ &= -8a^2 - 6a - 9. \end{aligned}$$

So the answer is that the coefficient of a^2 is -8 , the coefficient of a is -6 and the constant coefficient is -9 .

See Unit 5, Subsection 2.3.

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