Algebra 1, Module 3, Lesson 7 Assessment Test Answers

Question 1

Simplify the algebraic expression 2(x + 5) - 3(x + 4).

Answers:

A
$$x-2$$

Incorrect. If you double checked with the calculator you would see this could not be the correct answer choice.

B
$$-x + 1$$

Incorrect. If you double checked with the calculator you would see this could not be the correct answer choice.

C
$$x + 14$$

Incorrect. If you double checked with the calculator you would see this could not be the correct answer choice.

D
$$-x-2$$

Correct! Double checking with the calculator is always smart.

Which expression is equivalent to $\frac{3}{4} (4x - 16y) + (7y - 13x)$?

Answers:

A
$$-10x - 25y$$

Incorrect. If you double checked with the calculator you would see this could not be the correct answer choice.

B
$$10x - 29y$$

Incorrect. If you double checked with the calculator you would see this could not be the correct answer choice.

C
$$-10x - 5y$$

Correct! Double checking with the calculator is always smart.

D
$$-10x - 29y$$

Simplify the polynomial. $-2x(6x - 3) + 8x - (14 - 16x^2)$.

Answers:

A
$$4x^2 + 2x - 14$$

Incorrect. If you double checked with the calculator you would see this could not be the correct answer choice.

B
$$4x^2 + 14x - 14$$

Correct! Double checking with the calculator is always smart.

C
$$-28x^2 + 14x - 14$$

Incorrect. If you double checked with the calculator you would see this could not be the correct answer choice.

D
$$-28x^2 + 8x - 17$$

Simplify the algebraic expression $5(x^2 - 2xy) + 2(3x^2 - 12xy + 12)$.

Answers:

A
$$11x^2 - 34xy + 24$$

Correct! Double checking with the calculator is always smart.

B
$$11x^2 - 14xy + 24$$

Incorrect. If you double checked with the calculator you would see this could not be the correct answer choice.

C
$$11x^2 - 14xy + 12$$

Incorrect. If you double checked with the calculator you would see this could not be the correct answer choice.

D
$$11x^2 + 14xy - 24$$

You are selling T-shirts. The cost of buying and designing the shirts are 3(x + 1)(x - 4) where x represents the number of T-shirts. Your income will be determined by the expression $2(4x^2 - 6x - 9)$. The profit you make is determined by your cost (negative) and how many you sell (positive).

Simplify the algebraic expression $-3(x+1)(x-4) + 2(4x^2 - 6x - 9)$ that represents the amount of profit in dollars that you'll make making and selling x T-shirts.

Answers:

A
$$5x^2 - 12x - 6$$

Incorrect. If you double checked with the calculator you would see this could not be the correct answer choice.

B
$$5x^2 - 3x - 6$$

Correct! Double checking with the calculator is always smart.

C
$$8x^2 - 18x - 9$$

Incorrect. If you double checked with the calculator you would see this could not be the correct answer choice.

D
$$11x^2 - 12x - 6$$