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1. Elijah has a square plot of side **m** and another triangular plot with base and height
each equal to **m**. What is the total area of both plots?**(a)** A. $\frac{3m^2}{2} 23m^2$ **(b)** B. $\frac{13}{3} 32m^3$ **(c)** C. $\frac{3m^2}{5} 53m^2$ **(c)** L. $\frac{3m^2}{5m^3}$ **(c)** E. . $\frac{5m}{3} 35m$ **Answers**

 2. A travel agency charges \$ 8 per km and levies a fixed charge of \$ 50 for bus service. Write an algebraic expression for the above situation, if the bus is hired for x km.

 Image: A. 3x + 40
 Image: B. 5x + 27

 Image: C. 2x + 39
 Image: D. 3x + 31

 Image: E. 8x + 50
 Image: B. 5x + 20

Answers

3. A teacher gets paid \$70 per hour. Last week he worked for 9 hours and this week he will work for x hours. Write an algebraic expression for the money paid to him for both the weeks.		
\bigcirc A. 70(x + 9)	O B. x(70 + 9)	
O C. 9 (x + 70)	\bigcirc D. x (70 × 9)	
\bigcirc E. 9 (x \times 7)		

Answers

4. Liam collects 12 leaves and William collects x leaves for science project. After some time Liam loses 3 leaves and William collects 2x leaves. Which one of the following algebraic expression of the total number of leaves collected by both of them.	
O A. 12 + 2x	O B. 12-9 + 3x
\bigcirc C. 7 + 3x	O D. 3 + 3x
© E. 9 + 3x	

Answers

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5.Simplify combining like terms $z^2 + 13z^2 - 5z + 7z^3 - 15z$	
\bigcirc A. 7z ³ + 12z ² - 20z	\bigcirc B. 5z ² + 3z ² -11z
\bigcirc C. 5z ² + 6z ³ -10z	\bigcirc D. 9z ³ + 8z ² -6z
\bigcirc E. $3z^2 + 7z^2 - 13z$	

Answers

F

6. Simplify combining like terms $5x^2y - 5x^2 + 3yx^2 - 3y^2 + x^2 - y^2 + 8xy^2 - 3y^2$	
$\bigcirc A. 8x^2y + 8xy^2 - 4x^2 - 7y^2$	$\bigcirc B. 4x^2y + 4xy^2 - 2x^2 - 3y^2$
$\bigcirc C. 2x^2y + 2xy^2$	O D. $3x^2 - 5y^2$
\bigcirc E. $5xy^2 - 3x^2 - 2y^2$	

Answers

7. Add ab – 4a, 4b – ab, 4a – 4b	
O A. 1	B . 2
O C. 3	O D. 4
© E. 0	

Answers

8. What should be added to $x^2 + xy + y^2$ to obtain $2x^2 + 3xy$?	
$\bigcirc A. 2x + 2xy - y$	$\bigcirc B. x^2 + 2xy - y^2$
\bigcirc C. x ³ + y ³	\bigcirc D. x + 3xy - y
$\bigcirc E. 2x + 2xy - 2y$	

Answers

9. What should be subtracted from $2a + 8b + 10$ to get $-3a + 7b + 16$?	
\bigcirc A. 3a + 2b - 3	◯ B. 6a + 2b − 1
\bigcirc C. 6a – 3a + 6	○ D. 5a + b - 6
● E. a + 5b - 1	

Answers Sheet https://gotestprep.com/algebraic-expressions-test-2/



Answers

10. What should be taken away from $3x^2 - 4y^2 + 5xy + 20$ to obtain $-x^2 - y^2 + 6xy + 20$?	
\bigcirc A. $4x^2 - 3y^2 - xy$	\bigcirc B. 4x - 3y - xy
$\bigcirc C. 2x^3 - 2y - xy$	$\bigcirc D. 5x - 3y - xy$
\bigcirc E. 2x ² – 4y ²	

Answers