

LESSON
1.4**Practice B**

For use with pages 26–32

Substitute the given value of x into the equation. Then solve the equation for y .

1. $7x - 3y = 6; x = 3$

2. $6x + 5y = -7; x = -2$

3. $xy = 12 + 3x; x = 4$

4. $\frac{2}{3}x = 2y - \frac{2}{3}; x = -9$

5. $\frac{2}{3}y + \frac{1}{2}x = 1; x = 12$

6. $x - 2y = 3xy + 1; x = -2$

Solve the equation for y . Then find the value of y for the given value of x .

7. $3x - 6y = 6; x = 2$

8. $-2x + 2 = 5y - 1; x = 5$

9. $2xy + 1 = xy + 3; x = 2$

10. $\frac{1}{2}x - y = \frac{3}{2}x - 3; x = 7$

11. $\frac{3}{4}x + \frac{4}{7}y = \frac{5}{4}x - 1; x = 8$

12. $\frac{3}{2}y - 4x = 3 - 2y; x = 9$

Solve the formula for the indicated variable.

13. *Fahrenheit to Celsius*

Solve for F : $C = \frac{5}{9}(F - 32)$

14. *Perimeter of a Parallelogram*

Solve for b : $P = 2b + 2s$

15. *Perimeter of a Triangle*

Solve for c : $P = a + b + c$

16. *Area of a Rhombus*

Solve for d_1 : $A = \frac{1}{2}d_1d_2$

17. *Area of a Trapezoid*

Solve for b_1 : $A = \frac{1}{2}(b_1 + b_2)h$

18. *Volume of a Right Circular Cylinder*

Solve for h : $V = \pi r^2h$

19. *Lateral Surface Area of a Right Circular Cylinder*

Solve for h : $S = 2\pi rh$

20. *Volume of a Right Circular Cone*

Solve for h : $V = \frac{\pi r^2h}{3}$

Solve the formula for the indicated variable. Then use the given information to find the value of the variable. Include units of measure in the answer.

21. *Area of a Parallelogram*

Solve for h : $A = bh$

Find h when $A = 81 \text{ cm}^2$ and $b = 9 \text{ cm}$.

22. *Celsius to Fahrenheit*

Solve for C : $F = \frac{9}{5}C + 32$

Find C when $F = 77^\circ\text{F}$.

Basketball A regulation size basketball has a volume of 455.9 cubic inches. Use this information to answer the following questions. Approximate your answers to the nearest tenth.

23. The formula for the volume of a sphere is $V = \frac{4}{3}\pi r^3$. What is the radius of the basketball?

24. What is the diameter of the basketball?

25. The formula for the circumference of the basketball is $C = 2\pi r$. If the circumference of a basketball is 29 inches, is it a regulation size basketball?

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web jun 6 2022 gluconeogenesis refers to a group of metabolic reactions in cytosol and mitochondria to maintain the blood glucose level constant throughout the fasting state reactions in the gluconeogenesis pathway are regulated locally and globally by insulin glucagon and cortisol and some of them are high