12. Simplify the expression $\sqrt{\dfrac{48}{147}}$.

a. $\dfrac{4}{7}$

c. $\dfrac{16}{49}$

b. $\dfrac{4}{7}\sqrt{3}$

d. $\dfrac{\sqrt{48}}{\sqrt{147}}$

13. The formula for the resistance of a conductor with voltage V and current I is $r = \dfrac{V}{I}$. Solve for V.

a. $I = Vr$

c. $V = Ir$

b. $V = \dfrac{I}{r}$

d. $V = \dfrac{r}{I}$

14. Which system has no solution?

a. $\begin{cases} y = x + 4 \\ y - x = -4 \end{cases}$

c. $\begin{cases} y = \dfrac{1}{2}x + 6 \\ 2x + 5 = y \end{cases}$

b. $\begin{cases} 2y = 2x + 8 \\ -2x = 2y - 8 \end{cases}$

d. $\begin{cases} y = 4x + 1 \\ y - 1 = 4x \end{cases}$

Answers

12. ANS: A
13. ANS: C
14. ANS: A