Systems & Matrix Task Cards



Sort and match

Solving Systems by Matrices Card Sort Name:

Directions: Match the cards in the set and record your answers below.

1.	2.
3.	4.
5.	6.
7.	8.

1. $\begin{cases} 3x = 4y - 15 \\ 5x + y = -2 \end{cases}$

2. $\begin{cases} 3y = 14 - 2x \\ 3x = 2y - 5 \end{cases}$

3. $\begin{cases} 5x + 2y + 8 = 0 \\ 2x - 5y + 9 = 0 \end{cases}$

4. $\begin{cases} 3x + 2y = 5 \\ 4y = 1 - 3x \end{cases}$

5. $\begin{cases} x + 5 = 3y \\ 11 - y = 2x \end{cases}$

6. $\begin{cases} x = 2y + 6 \\ 3x = 10 - 2y \end{cases}$

7. $\begin{cases} y = 4x - 3 \\ 5y = 3x - 11 \end{cases}$

8. $\begin{cases} y + 7 + 2x = 0 \\ 3x - y + 3 = 0 \end{cases}$

9. $\begin{cases} 3x + 5 = -5y \\ 6 - 2x = y \end{cases}$

10. $\begin{cases} 3x = 5 - 2y \\ 4y + 6x = 10 \end{cases}$

11. $\begin{cases} 2x - 8 = 7y \\ 3x + 1 = 4y \end{cases}$

12. $\begin{cases} 3y + 2x - 3 = 0 \\ 2y = 5x - 17 \end{cases}$

13. $\begin{cases} 9(x - 1) = 3y \\ 11 = x + 3y \end{cases}$

14. $\begin{cases} 4 - 2x = 3y \\ 4y - 3 + 5x = 0 \end{cases}$

15. $\begin{cases} 2y - 3x + 12 = 0 \\ 5 - 4x = y \end{cases}$

16. $\begin{cases} 2y = 4x + 14 \\ 2x - 5 = y \end{cases}$

Teacher Note: Run this set of cards on color #2

A. $\left[\begin{array}{cc|c} 2 & -7 & 8 \\ 3 & -4 & -1 \end{array}\right]$

B. $\left[\begin{array}{cc|c} 3 & 2 & 5 \\ 3 & 4 & 1 \end{array}\right]$

C. $\left[\begin{array}{cc|c} 3 & -2 & 12 \\ 4 & 1 & 5 \end{array}\right]$

D. $\left[\begin{array}{cc|c} 3 & 2 & 10 \\ 1 & 2 & 6 \end{array}\right]$

E. $\left[\begin{array}{cc|c} 3 & 2 & 5 \\ 6 & 4 & 10 \end{array}\right]$

F. $\left[\begin{array}{cc|c} 3 & -4 & -15 \\ 5 & 1 & -2 \end{array}\right]$

G. $\left[\begin{array}{cc|c} 2 & 1 & -7 \\ 3 & -1 & -3 \end{array}\right]$

H. $\left[\begin{array}{cc|c} 9 & -3 & 9 \\ 1 & 3 & 11 \end{array}\right]$

J. $\left[\begin{array}{cc|c} 5 & 2 & -8 \\ 2 & -5 & -9 \end{array}\right]$

K. $\left[\begin{array}{cc|c} 2 & 1 & 6 \\ 3 & 5 & -5 \end{array}\right]$

L. $\left[\begin{array}{cc|c} 2 & -1 & 5 \\ 4 & -2 & -14 \end{array}\right]$

M $\left[\begin{array}{cc|c} 1 & -3 & -7 \\ 2 & 1 & 11 \end{array}\right]$

N. $\left[\begin{array}{cc|c} 4 & -1 & 9 \\ 3 & -5 & 11 \end{array}\right]$

P. $\left[\begin{array}{cc|c} 2 & 3 & 4 \\ 5 & 4 & 3 \end{array}\right]$

R. $\left[\begin{array}{cc|c} 2 & 3 & 14 \\ 3 & -2 & -5 \end{array}\right]$

S. $\left[\begin{array}{cc|c} 5 & -2 & 17 \\ 2 & 3 & 3 \end{array}\right]$

Teacher Note: Run this set of cards on color #3

a. $(4, 3)$

b. No solution

c. $(2, -1)$

d. $(-3, -2)$

e. $(3, -1)$

f. $(1, 4)$

g. $(4, -1)$

h. $(-2, 1)$

i. $(2, 3)$

k. $(3, -2)$

m. $(-1, 2)$

n. $(5, -4)$

p. $(-1, 3)$

r. Infinite solutions

s. $(-2, -3)$

w. $(2, -3)$

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