Task card 1 Systems of Three Equations

Solve the system.

$$\begin{cases} x - 2y - z = -13 \\ x + y - z = 2 \\ -3x - y + 2z = -1 \end{cases}$$

Task card 2 Systems of Three Equations

Solve the system.

$$\begin{cases} 3x + y + z = 17 \\ -x - y + 3z = 7 \\ x + 3y + z = 11 \end{cases}$$

Task card 3 Systems of Three Equations

Solve the system.

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

Task card 4 Systems of Three Equations

Solve the system.

$$\begin{cases} -2x + y + 2z = 3 \\ -x - y - z = 3 \\ 3x - y - z = -1 \end{cases}$$

Task card 5 Systems of Three Equations

Solve the system.

$$\begin{cases} 3x + y - z = -13 \\ 2x + 2y - 2z = -10 \\ 3x + y + 2z = -19 \end{cases}$$

Task card 6 Systems of Three Equations

Solve the system.

$$\begin{cases} 2x + 3y + 2z = -3 \\ -3x + 2y + 3z = -32 \\ 2x + 3y - z = 12 \end{cases}$$

Task card 7 Systems of Three Equations

Solve the system.

$$\begin{cases} -x - 2y - z = 9 \\ 3x + 2y - 2z = -25 \\ -3x - y + 3z = 24 \end{cases}$$

Task card 8 Systems of Three Equations

Solve the system.

$$\begin{cases} -x - y + z = -1 \\ x - y + z = -1 \\ 3x + y - 3z = 11 \end{cases}$$

Task card 9 Systems of Three Equations

Solve the system.

$$\begin{cases} 3x - 3y - 2z = 13 \\ 3x + y + z = 8 \\ x + 2y - 3z = -4 \end{cases}$$

Task card 10 Systems of Three Equations

Solve the system.

$$\begin{cases} -x + y - 2z = -12 \\ x + 3y + 3z = 6 \\ -x + y + z = 6 \end{cases}$$

Task card 11 Systems of Three Equations

Solve the system.

$$\begin{cases} -3x + y + z = -8 \\ x + 3y + 3z = 16 \\ -2x + y - z = -8 \end{cases}$$

Task card 12 Systems of Three Equations

Solve the system.

$$\begin{cases} -2x - y + 2z = 0 \\ -2x - y - 2z = -8 \\ 2x + 2y - z = 2 \end{cases}$$

Task card 13 Systems of Three Equations

Solve the system.

$$\begin{cases} -x + 3y + 3z = -7 \\ 3x - 3y + 2z = -1 \\ x - 3y - z = 3 \end{cases}$$

Task card 14 Systems of Three Equations

Solve the system.

$$\begin{cases} -2x - 2y + z = -18 \\ 2x + y - z = 14 \\ x + y + z = 0 \end{cases}$$

Task card 15 Systems of Three Equations

Solve the system.

$$\begin{cases} 3x - y + z = 2 \\ -2x - 3y + z = -15 \\ 2x + 2y + z = 2 \end{cases}$$

Task card 16 Systems of Three Equations

Solve the system.

$$\begin{cases} -x - y - z = 9 \\ 2x + 2y - 3z = 7 \\ 2x + 3y - z = -7 \end{cases}$$

Task card 17 Systems of Three Equations

Solve the system.

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

Task card 18 Systems of Three Equations

Solve the system.

$$\begin{cases} -2x - y - 2z = -4 \\ -x - y + z = -1 \\ -x - 3y - 3z = -9 \end{cases}$$

Task card 19 Systems of Three Equations

Solve the system.

$$\begin{cases} -x - y - 3z = -12 \\ -x - 2y - z = -6 \\ -3x + 2y - z = 6 \end{cases}$$

Task card 20 Systems of Three Equations

Solve the system.

$$\begin{cases} -x - 2y + z = -4 \\ 3x + 2y + z = 16 \\ x + y - z = 4 \end{cases}$$

Task card 21 Systems of Three Equations

Solve the system.

$$\begin{cases} -3x - 3y - 3z = 6 \\ x - y - 3z = 8 \\ -3x - 2y - 2z = 2 \end{cases}$$

Task card 22 Systems of Three Equations

Solve the system.

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

Task card 23 Systems of Three Equations

Solve the system.

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

Task card 24 Systems of Three Equations

Solve the system.

$$\begin{cases} x + 2y - 2z = 18 \\ 3x - y + 2z = 0 \\ -2x - y - 2z = 0 \end{cases}$$

Systems of Three Equations Task Cards

Recording sheet · Grade 11 · Solve each system. Write the answer as an ordered triple (x, y, z).

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Systems of Three Equations Task Cards: Answer Key

Grade 11 · Hard

The answers online

1. (2, 5, 5)	**2.** (4, 1, 4)	**3.** (0, 4, -4)
4. (-1, -5, 3)	**5.** (-4, -3, -2)	**6.** (5, -1, -5)
7. (-5, -3, 2)	**8.** (0, -4, -5)	**9.** (3, -2, 1)
10. (-3, -3, 6)	**11.** (4, 2, 2)	**12.** (2, 0, 2)
13. (1, 0, -2)	**14.** (2, 4, -6)	**15.** (3, 1, -6)
16. (0, -4, -5)	**17.** (1, 2, -1)	**18.** (0, 2, 1)
19. (-2, 2, 4)	**20.** (5, 0, 1)	**21.** (2, -3, -1)
22. (-1, 3, 5)	**23.** (-3, 2, 3)	**24.** (4, 2, -5)