

Name: _____

CLASS WORK

5.3 - 2x2 Systems Hard - CW

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1. Solve the following system of equations for all the variables:

$$\begin{aligned} -5f - 8r &= -80 \\ 4f + 10r &= 100 \end{aligned}$$

2. Solve the following system of equations for all the variables:

$$\begin{aligned} 8l - 6s &= -8 \\ -6l + 7s &= 6 \end{aligned}$$

3. Solve the following system of equations for all the variables:

$$\begin{aligned} -3a - 6t &= 78 \\ 10a + 10t &= -180 \end{aligned}$$

4. Solve the following system of equations for all the variables:

$$\begin{aligned} 8l - 9a &= 70 \\ -6l + 6a &= -48 \end{aligned}$$

5. Solve the following system of equations for all the variables:

$$\begin{aligned} -10z + 4l &= -34 \\ 7z + 10l &= 139 \end{aligned}$$

6. Solve the following system of equations for all the variables:

$$\begin{aligned} 10x - 5c &= 85 \\ 8x + 9c &= 107 \end{aligned}$$

7. Solve the following system of equations for all the variables:

$$\begin{aligned} -5f + 4x &= -10 \\ -3f + 9x &= -72 \end{aligned}$$

8. Solve the following system of equations for all the variables:

$$\begin{aligned} 5y - 7r &= -74 \\ 9y + 9r &= 18 \end{aligned}$$

9. Solve the following system of equations for all the variables:

$$\begin{aligned} 10c + 10y &= -30 \\ -9c - 6y &= 0 \end{aligned}$$

10. Solve the following system of equations for all the variables:

$$\begin{aligned} -10r + 3t &= -43 \\ 9r - 8t &= 44 \end{aligned}$$

11. Solve the following system of equations for all the variables:

$$\begin{aligned} 2l - 7m &= 49 \\ 9l - 6m &= 93 \end{aligned}$$

12. Solve the following system of equations for all the variables:

$$\begin{aligned} -4l - 8m &= 100 \\ -6l + 10m &= -26 \end{aligned}$$

13. Solve the following system of equations for all the variables:

$$\begin{aligned} -8z - 10q &= -80 \\ 7z - 8q &= 70 \end{aligned}$$

14. Solve the following system of equations for all the variables:

$$\begin{aligned} 10p - 10y &= -80 \\ -7p - 8y &= 86 \end{aligned}$$

15. Solve the following system of equations for all the variables:

$$\begin{aligned} -8r - 7l &= 4 \\ 6r + 6l &= -6 \end{aligned}$$

16. Solve the following system of equations for all the variables:

$$\begin{aligned} 10a - 2e &= -118 \\ 7a - 9e &= -151 \end{aligned}$$

17. Solve the following system of equations for all the variables:

$$\begin{aligned} 3w + 4a &= 22 \\ 5w + 5a &= 40 \end{aligned}$$

18. Solve the following system of equations for all the variables:

$$\begin{aligned} -4d + 3m &= -18 \\ -9d - 8m &= 48 \end{aligned}$$

19. Solve the following system of equations for all the variables:

$$\begin{aligned} 6i + 8y &= 100 \\ 10i + 9y &= 132 \end{aligned}$$

20. Solve the following system of equations for all the variables:

$$\begin{aligned} -6t + 9o &= -63 \\ -7t + 5o &= -46 \end{aligned}$$

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5.3 - 2x2 Systems Hard - CWAnswers

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1. $f = 0$ and $r = 10$
2. $l = -1$ and $s = 0$
3. $a = -10$ and $t = -8$
4. $l = 2$ and $a = -6$
5. $z = 7$ and $l = 9$
6. $x = 10$ and $c = 3$
7. $f = -6$ and $x = -10$
8. $y = -5$ and $r = 7$
9. $c = 6$ and $y = -9$
10. $r = 4$ and $t = -1$
11. $l = 7$ and $m = -5$
12. $l = -9$ and $m = -8$
13. $z = 10$ and $q = 0$
14. $p = -10$ and $y = -2$
15. $r = 3$ and $l = -4$
16. $a = -10$ and $e = 9$
17. $w = 10$ and $a = -2$
18. $d = 0$ and $m = -6$
19. $i = 6$ and $y = 8$
20. $t = 3$ and $o = -5$