

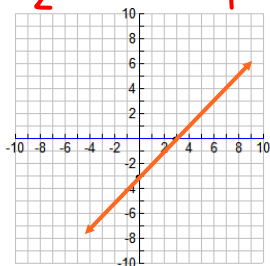
Unit 1 Review Answers

1. $g = 2$ 2. $w = -2$ 3. $x = \frac{23}{9}$

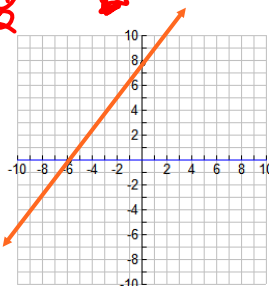
4. $x \geq 2$ 5. $1 < x \leq 6$ 6. $x > 2$



7.



8.



9. $x = 9, -5$ 10. $x = 1$

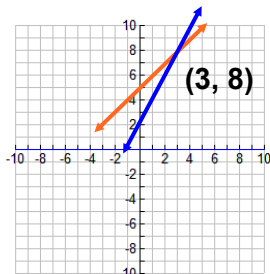
11. $x \leq 3$ and $x \geq -11$ 12. $x > 4$ or $x < -2$



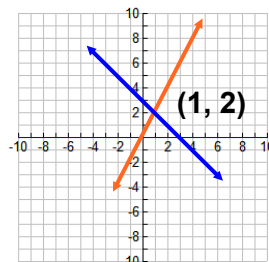
13. $y = -4x + 6$

14. $y = -\frac{3}{2}x - 11$ 15. $y = -5x + 5$

16.



17.



18. $(2, 1)$

19. ~~$(1, 3)$~~

$(6, -2)$

20. no solution

21. $w = 4, x = -2, y = 2, z = -23$

22a. $\begin{bmatrix} 10 & -9 \\ -1 & -5 \end{bmatrix}$ b. $\begin{bmatrix} -8 & -6 \\ 2 & 4 \end{bmatrix}$ c. $\begin{bmatrix} -32 & -20 \\ -2 & -6 \end{bmatrix}$ d. $\begin{bmatrix} -24 & 46 \\ 4 & -14 \end{bmatrix}$

23a. $x =$ Number of hours you worked
 $y =$ Number of hours sister worked

b. $y = x - 2$
 $18x + 24y = 288$

24a. $x =$ # of bottles of A
 $y =$ # of bottles of B

c. $x = 8, y = 6$

b. $x + y = 84$
 $6.5x + 8.25y = 588$

c. $x = 60, y = 24$