

SM2H 1.1 all answers 2019-2020

1. no, (2, 21), (2, 25), (8, 30)

2. yes, (5, 105), (10, 110), (15, 105)

3. yes, (-3, 0), (-1, -1), (0, 0), (2, -2), (3, 4)

4. yes, Domain: $\{-8, -2, 3, 7\}$, Range: $\{-6, 3, 4\}$

5. no, Domain: $\{2, 3, 4\}$, Range: $\{-1, 1, 2, 5\}$

6. yes, Domain: $\{-5, -4, 0, 1, 2, 6\}$, Range: $\{-3, -2, 1, 3, 5\}$

7. no, Domain: $\{-4, -2, 0, 2, 4\}$, Range: $\{-4, -2, 0, 2, 4\}$

8. no, Domain: $[-2, 2]$, Range: $[-6, 6]$

9. yes, Domain: $(-\infty, \infty)$, Range: $(-\infty, 5]$

10. $f(2) = 1$

11. $g(-1) = -9$

12. $h(4) = -\frac{4}{5}$

13. $g(7) = 7$

14. $f(-5) = 50$

15. $h(-3) = -\frac{1}{3}$

16. $h(10) = -\frac{10}{17}$

17. $g\left(-\frac{1}{2}\right) = -8$

18. $f(-9) = 122$

19. $g(n + 1) = 2n - 5$

20. $h(2m) = \frac{2m}{3-4m}$

21. $f(-v) = v^2 + 4v + 5$

22. -2

23. 3

24. 0

25. -3

26. -3, 6, & 10

27. -5 & 8

28. 0 & 4

29. $[-6, 11]$

30. $[-3, 4]$

31. $x < 5$

32. $x > -1$ and $(-1, \infty)$

33. $(-6, \infty)$

34. $x \geq -7$

35. $(-5, 6]$

36. $-2 \leq x < 9$

37. $(-\infty, -3] \cup (8, \infty)$

38. $x \leq 1$ or $x > 3$