School786
AN ONLINE SCHOOL

Name: Due Date: Teacher: Parent Sign:

Answers:

1. (4,4)

2. (5,0)

3. (4,2)

4. (4,8) and (5,10)

5. Rule: $y = 2x - 1$; next pair (5,9)

6. (4,1) and (5,0)

7. (6,10)

8. (3,0), (3,1), (3,2), (3,3)

9. (0,4), (1,4), (2,4), (3,4)

10. (4,12)

11. 6th ordered pair is (5,6)

12. y increases by 2; 7th pair is (7,14)

13. y repeats each value twice: sequence 0,0,1,1,2,2,... Next is (6,3)

14. (4,16)

15. (0,0), (1,2), (2,4) are on a straight line; (3,7) does not fit (would be (3,6) if linear)

16. Yes; slope = 2

17. Yes; slope = -2

18. $y = 7$

19. $y = 7$

20. Rule: $y = 3x + 1$; when $x = 6$, $y = 19$

21. $y = 4x$ (so when x=10, y=40)

22. Constant = 3 ($y = 3x$)

23. $y = (\frac{1}{2})x$

24. Slope = -1

25. $y = 2x + 3$

26. Next two points: (1,6) and (2,4)

27. $y = 11$

28. (0,1), (1,4), (2,7), (3,10)

29. y values: 4, 3, 2, 1 for $x = 0,1,2,3$ respectively

30. Pattern: $y = 3x + 1$, so when $x = 0$, $y = 1$

31. $y = 2x$

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32. $y = 2x + 1$

33. Multiplier $= 4$ $(y = 4x)$

34. $y = (x) * ? + ?$ Solve: slope $= (11\text{-}5)/(4\text{-}2) = \frac{6}{2} = 3$ so $y = 3x - 1$ (check: x=2 -> 6-1=5; x=6 ->18-1=17)

35. $y = 3x + 6$

36. $y = x^2$ (squares)

37. $y = x - 1$

38. $y = 5x$; when x = 0, y = 0

39. $y = 3x$

40. Not linear. Pattern: $y = x^2 + 1$ (check: $1^{2+1=2}$, $2^{2+1=5}$, $3^{2+1=10)}$

41. (1,2), (2,4), (3,6), (4,8), (5,10), (6,12)

42. (0,0), (1,5), (2,10), (3,15), (4,20)

43. (0,3), (1,5), (2,7), (3,9), (4,11)

44. (0,5), (1,4), (2,3), (3,2), (4,1)

45. (1,1), (2,4), (3,9), (4,16), (5,25)

46. (0,-1), (1,2), (2,5), (3,8), (4,11)

47. (1,1), (2,2), (3,4), (4,8) — (each y doubles: 1,2,4,8)

48. (1,2), (2,4), (3,6), (4,8), (5,10), (6,12)

49. x=1 -> (1,2); x=2 -> (2,6); x=3 -> (3,10)

50. (0,0), (1,3), (2,6), (3,9), (4,12), (5,15)