

Algebra I (Lesson 4.2) Day 1

1. (A)

months	n	1	2	3	4
cost (\$)	f(n)	32	39	46	53

3. Not arithmetic, no common difference

(B) Domain: $\{1, 2, 3, 4\}$
Range: $\{32, 39, 46, 53\}$

(C) $d = 7$

5. $f(1) = 58, d = 7$

$$f(n) = 58 + 7(n-1)$$

7. $f(1) = 4567, d = -1111$

$$f(n) = 4567 - 1111(n-1)$$

9. $f(1) = 60, d = 20$

$$f(n) = 60 + 20(n-1)$$

11. $f(1) = 63, d = 7$

$$f(n) = 63 + 7(n-1)$$

13. $f(1) = 112, d = -2$

$$f(n) = 112 - 2(n-1)$$

15. $f(1) = 67, d = -30$

$$f(n) = 67 - 30(n-1)$$

17. $f(1) = 38, d = 12$

$$f(n) = 38 + 12(n-1)$$

19. $f(1) = 74, d = 11$

$$f(n) = 74 + 11(n-1)$$