

1. $3/2$

3. $-5/2$

5. a) 28, 33, 38

b) Add 5

c) $f(x) = f(x-1) + 5; f(1) = 3$

d) $f(x) = 5x - 2$

7. a) -4.5, -6, -7.5

b) Subtract 1.5

c) $f(x) = f(x-1) - 1.5; f(1) = 3$

d) $f(x) = -1.5x + 4.5$

9. Arithmetic: No

11. Arithmetic: Yes

Recursive: $f(x) = f(x-1) + 2.6; f(1) = -12.3$

Explicit: $f(x) = 2.6x - 14.9$

-4th: -25.3

13. No

15. Arithmetic: Yes

Recursive: $f(x) = f(x-1) + \frac{1}{2}; f(1) = -\frac{1}{2}$

Explicit: $f(x) = \frac{1}{2}x - 1$

17th: $\frac{15}{2}$

17. No

19. a) 28, 22, 16, 10

b) $f(x) = f(x-1) - 6; f(-15) = 52$

c) $f(x) = -6x - 38$