

Precalculus

10.2 Odd Answers

1. $a_n = 3n + 5$

$$a_{n-1} = 3n + 2$$

$$a_n - a_{n-1} = 3$$

arithmetic, $d = 3$

3. $a_n = n$

$$a_{n-1} = n - 1$$

$$a_n - a_{n-1} = 1$$

arithmetic, $d = 1$

5. $a_n = -3n + 8$

$$a_{51} = -145$$

7. 230

9. $72\sqrt{5}$

11. $d = 5, a_1 = -45$

$$a_1 = -45; a_n = a_{n-1} + 5$$

$$a_n = 5n - 50$$

13. $d = -4, a_1 = 40$

$$a_1 = 40; a_n = a_{n-1} - 4$$

$$a_n = -4n + 44$$

15. 343

17. 9400

19. $\frac{975}{2}$

21. 42 seats, 2130 seats

23. 1647 seats