

Algebra Answer Key

Warm-up:

1. Series Formulas:

- a. $n \cdot \left(\frac{a_1 + a_n}{2} \right)$
- b. $a_1 \cdot \frac{1 - r^n}{1 - r}$
- c. $a_1 \cdot \frac{1}{1 - r}$

2. Vieta's Formulas:

- i. $\frac{-b}{a}$
- ii. $\frac{c}{a}$
- iii. $\frac{-b}{a}$
- iv. $\frac{c}{a}$
- v. $\frac{-d}{a}$
- vi. $\frac{-a_{n-1}}{a_n}$
- vii. $(-1)^n \frac{a_0}{a_n}$
- viii. $(-1)^k \frac{a_{n-k}}{a_n}$

Exercises:

1. C
2. A
3. B
4. B
5. B
6. E
7. E
8. C
9. C
10. E