

Sum and Product of the Roots

L1S1

Find the sum and product of the roots from each equation.

1) $6x^2 - 18x - 24 = 0$

Sum of the roots = _____

Product of the roots = _____

2) $0.5m^2 + 1.5m + 3 = 0$

Sum of the roots = _____

Product of the roots = _____

3) $-\frac{1}{2}p^2 + \frac{9}{4}p + \frac{7}{2} = 0$

Sum of the roots = _____

Product of the roots = _____

4) $5y^2 - 6 = 0$

Sum of the roots = _____

Product of the roots = _____

5) $9.5s^2 + 8s - 16.5 = 0$

Sum of the roots = _____

Product of the roots = _____

6) $\sqrt{5}k^2 + \sqrt{20}k - 5\sqrt{5} = 0$

Sum of the roots = _____

Product of the roots = _____

7) $16n^2 - 24n + 30 = 0$

Sum of the roots = _____

Product of the roots = _____

8) $9z^2 + 4z + 7 = 0$

Sum of the roots = _____

Product of the roots = _____

Sum and Product of the Roots

L1S1

Find the sum and product of the roots from each equation.

1) $6x^2 - 18x - 24 = 0$

Sum of the roots = 3

Product of the roots = -4

2) $0.5m^2 + 1.5m + 3 = 0$

Sum of the roots = -3

Product of the roots = 6

3) $-\frac{1}{2}p^2 + \frac{9}{4}p + \frac{7}{2} = 0$

Sum of the roots = $\frac{9}{2}$

Product of the roots = -7

4) $5y^2 - 6 = 0$

Sum of the roots = 0

Product of the roots = $-\frac{6}{5}$

5) $9.5s^2 + 8s - 16.5 = 0$

Sum of the roots = $-\frac{16}{19}$

Product of the roots = $-\frac{33}{19}$

6) $\sqrt{5}k^2 + \sqrt{20}k - 5\sqrt{5} = 0$

Sum of the roots = -2

Product of the roots = -5

7) $16n^2 - 24n + 30 = 0$

Sum of the roots = $\frac{3}{2}$

Product of the roots = $\frac{15}{8}$

8) $9z^2 + 4z + 7 = 0$

Sum of the roots = $-\frac{4}{9}$

Product of the roots = $\frac{7}{9}$