Sum and Product of the roots

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

1) $x^2 - 10 = -6$

      Sum of the roots = _____

      Product of the roots = _____

2) $2u^2 + u = 0$

      Sum of the roots = _____

      Product of the roots = _____

3) $5n^2 - 10n - 1 = 0$

      Sum of the roots = _____

      Product of the roots = _____

4) $t^2 + 8t - 9 = 0$

      Sum of the roots = _____

      Product of the roots = _____

Complete the table.

Q. No	Quadratic Equations	Sum of the roots	Product of the roots
1)	$6m^2 - 5m = 0$		
2)	$y^2 + 49 = 0$		
3)	$3p^2 + p - 4 = 0$		
4)	$g^2 - g + 2 = 0$		

Sum and Product of the roots

Answer key

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

1) $x^2 - 10 = -6$

Sum of the roots = __**0**__

Product of the roots = __**-4**__

2) $2u^2 + u = 0$

Sum of the roots = __$-\dfrac{1}{2}$__

Product of the roots = __**0**__

3) $5n^2 - 10n - 1 = 0$

Sum of the roots = __**2**__

Product of the roots = __$-\dfrac{1}{5}$__

4) $t^2 + 8t - 9 = 0$

Sum of the roots = __**-8**__

Product of the roots = __**-9**__

Complete the table.

Q. No	Quadratic Equations	Sum of the roots	Product of the roots
1)	$6m^2 - 5m = 0$	$\dfrac{5}{6}$	0
2)	$y^2 + 49 = 0$	0	49
3)	$3p^2 + p - 4 = 0$	$-\dfrac{1}{3}$	$-\dfrac{4}{3}$
4)	$g^2 - g + 2 = 0$	1	2