Sum and Product of the roots

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

1) $y^2 + 6x + 5 = 0$

Sum of the roots = _____

Product of the roots = _____

2) $5t^2 - 125 = 0$

Sum of the roots = _____

Product of the roots = _____

3) $2m^2 - 10m + 8 = 0$

Sum of the roots = _____

Product of the roots = _____

4) $p^2 + 3p - 1 = -1$

Sum of the roots = _____

Product of the roots = _____

Complete the table.

Q. No	Quadratic Equations	Sum of the roots	Product of the roots
1)	$5x^2 - 4x + 7 = 0$		
2)	$6n^2 - 4n = 0$		
3)	$h^2 + 7k + 8 = 0$		
4)	$u^2 - 9 = 0$		

Sum and Product of the roots

Answer key

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

1) $y^2 + 6x + 5 = 0$

   Sum of the roots = **−6**

   Product of the roots = **5**

2) $5t^2 − 125 = 0$

   Sum of the roots = **0**

   Product of the roots = **−25**

3) $2m^2 − 10m + 8 = 0$

   Sum of the roots = **5**

   Product of the roots = **4**

4) $p^2 + 3p − 1 = −1$

   Sum of the roots = **−3**

   Product of the roots = **0**

Complete the table.

Q. No	Quadratic Equations	Sum of the roots	Product of the roots
1)	$5x^2 − 4x + 7 = 0$	$\dfrac{4}{5}$	$\dfrac{7}{5}$
2)	$6n^2 − 4n = 0$	$\dfrac{2}{3}$	**0**
3)	$h^2 + 7k + 8 = 0$	**−7**	**8**
4)	$u^2 − 9 = 0$	**0**	**−9**