## Answer on Question \#43650 - Math - Algebra

factorize: $x^{\wedge} 2-(y+z)^{\wedge} 2$

## Solution.

Factor the following:
$x^{2}-(y+z)^{2}$

Factor the difference of two squares.

Factor the difference of two squares. $x^{2}-(y+z)^{2}=(x-(y+z))(x+(y+$ z)):
$(x-(y+z))(x+y+z)$
$\qquad$

Distribute -1 over $y+z$.
$-(y+z)=-y-z:$

Answer:

$$
(x+-y-z)(x+y+z)
$$

