

EXAMPLE ON WEB PAGE ("BOX METHOD")

Factor $5x^2 - 18x + 9$

	x	-3
$5x$	$5x^2$	$-15x$
-3	$-3x$	9

$5 \cdot 9 = 45$ is the product
 -18 is the sum
 both numbers must be negative

Product	Sum
$(-1) \cdot (-45)$	-46
$(-2) \cdot (-22.5)$	
$(-3) \cdot (-15)$	-18 YES!

$(5x-3)(x-3)$

CHECK

$5x^2 - 15x - 3x + 9$
 $5x^2 - 18x + 9$

EXAMPLE #1 ON WEB WORKSHEET

Factor $3p^2 - 2p - 5$

	$3p$	-5
p	$3p^2$	$-5p$
1	$3p$	-5

$3 \cdot (-5) = -15$ is the product
 -2 is the sum

Product	Sum
$(1) \cdot (-15)$	-14
$(2) \cdot (-7.5)$	
$(3) \cdot (-5)$	-2 YES!

$(3p-5)(p+1)$