Lezione 46

$r^2 - 2rt - 15t^2$

$= (r - 5t)(r + 3t)$

$P = -15t^2$

$S = -2t$

1)	t	$15t$
2)	$3t$	$5t$

$3t + (-5t) = -2t$

$5x^2 - 2xy - 16y^2$

$= (5x + 8y)(x - 2y)$

$P = -80y^2$

$S = -2y$

1)	y	$80y$
2)	$2y$	$40y$
3)	$4y$	$20y$
4)	$5y$	$16y$
5)	$8y$	$10y$

$x^2 + 22xy + 40y^2$

$x^2 + 22y\,x + 40y^2 =$

$= (x + 2y)(x + 20y)$

$(x + a)(x + b)$

$p = 40y^2$

$s = 22y$

$(x + ay)(x + by)$

1)	$1y$	$40y$
2)	$2y$	$20y$
3)	$4y$	$10y$

$4a^2 - 11ab + 7b^2$

$4a^2 - 11ba + 7b^2 =$

$= 4a^2 - 4ba - 7ba + 7b^2 =$

$= 4a(a - b) - 7b(a - b) =$

$= (a - b)(4a - 7b)$

$p = 28b^2$

$s = -11b$

1)	b	$28b$
2)	$2b$	$14b$
3)	$4b$	$7b$

$-4b \qquad -7b$

$6a^2 - 3a - 18 =$

$= 3(2a^2 - 1a - 6)$

$= 3[2a^2 + 3a - 4a - 6] =$

$= 3[a(3+2a) - 2(2a+3)]$

$= 3[(3+2a)(a-3)] =$

$= \boxed{3(3+2a)(a-2)}$

$p = -12$

$s = -1$

1) $1 \cdot 12$
2) $2 \cdot 6$ (3 −4)
3) $3 \cdot 4$

$3a^2 - 7a - 6 =$

$= 3a^2 + 2a - 9a - 6 =$

$= a(3a+2) - 3(3a+2) =$

$= (3a+2)(a-3)$

$p = -18$

$s = -7$

1) $1 \cdot 18$
2) $2 \cdot 9$
3) $3 \cdot 6$

2 −9