1.9 - 6

a_1, a_2, a_3

$a_3^2 = a_1^2 + a_2^2$

$(a_1+2d)^2 = a_1^2 + (a_1+d)^2$

$a_1^2 + 4a_1d + 4d^2 = a_1^2 + a_1^2 + 2a_1d + d^2$

$2a_1d + 3d^2 = a_1^2$

$a_1^2 - 2a_1d - 3d^2 = 0$

$a_1^2 - 3a_1d + a_1d - 3d^2 = 0$

$a_1(a_1 - 3d) + d(a_1 - 3d) = 0$

$(a_1 + d)(a_1 - 3d) = 0$

$a_1 = -d$	$a_1 = 3d$
$a_2 = 0$	$a_2 = 4d$
$a_3 = d$	$a_5 = 5d$
$a_{10} = -d + d(9)$	$a_{10} = 3d + d(9)$
$a_{10} = 8d$	$a_{10} = 12d$
$S_{10} = 5(-d + 8d)$	$S_{10} = 5(15d) = 75d$
$S_{10} = 35d$	