

1142. $a_1=2$	$a_8 = a_1 + (n-1) \cdot d$	$a_{15} = a_1 + (n-1) \cdot d$
$a_8=23$	$a_8 = a_1 + 7d$	$a_{15} = 2 + 14 \cdot 3$
<hr/> $a_{15}=?$	$23=2+7d$	$a_{15}=44$
	$7d=21$	
$a_n = a_1 + (n-1) \cdot d$	$d=3$	

1145. $a_1 + a_2 + a_3 = 27$	$a_n = a_1 + (n-1) \cdot d$	
$a_1^2 + a_2^2 + a_3^2 = 275$	$a_2 = a_1 + d$	
<u>$d > 0$ (растући низ)</u>	$a_3 = a_1 + 2d$	
$(a_1, a_2, a_3, a_4 \dots)?$		
$a_1 + a_1 + d + a_1 + 2d = 27$		
$a_1^2 + (a_1 + d)^2 + (a_1 + 2d)^2 = 275$	$a_1 = 9 - d$	
<hr/> $3a_1 + 3d = 27 \quad /:3$	$a_1 = 9 - 4$	
$a_1^2 + a_1^2 + 2a_1d + d^2 + a_1^2 + 4a_1d + d^2 = 275$	$a_1 = 5$	
<hr/> $a_1 + d = 9 \Rightarrow a_1 = 9 - d$	\downarrow	
$3a_1^2 + 6a_1d + 5d^2 = 275$	$a_2 = 5 + 4 = 9$	
<hr/> $3(9-d)^2 + 6(9-d) \cdot d + 5d^2 = 275$	$a_3 = 5 + 2 \cdot 4 = 13$	
$3 \cdot (81 - 18d + d^2) + 54d - 6d^2 + 5d^2 = 275$	$a_4 = 5 + 3 \cdot 4 = 17$	
$243 - 54d + 3d^2 + 54d - 6d^2 + 5d^2 = 275$	\downarrow	
$2d^2 = 32$	$5, 9, 13, 17, \dots$	
$d^2 = 16$		
$d_1 = 4$ \vee $d_2 = -4$		

* $d > 0$ јер је аритметички низ растући