Вежбање

$S_n = (n-2) \cdot 180°$

$S = 360°$

$d_n = n-3$

$D_n = \frac{n \cdot (n-3)}{2}$

552. а) $107°, 117°, 100°, 97°, 119°$

$n = 5$

$S_5 = (5-2) \cdot 180°$

$S_5 = 3 \cdot 180°$

$S_5 = 540°$

$107° + 117° + 100° + 97° + 119° = 540°$

б) $99°, 98°, 83°, 160°, 140°, 130°$

$n = 6$

$S_6 = (6-2) \cdot 180°$

$S_6 = 4 \cdot 180°$

$S_6 = 720°$

$99° + 98° + 83° + 160° + 140° + 130° = 710°$

548. б) $S_n = 2340°$

$S_n = (n-2) \cdot 180°$

$(n-2) \cdot 180° = 2340°$

$n - 2 = \frac{2340°}{180°}$

$n - 2 = 13$

$n = 15$

$D_{15} = \frac{15 \cdot (15-2)}{2}$

$D_{15} = \frac{15 \cdot 12}{2}$

$D_{15} = 90$

Домаш: завршити (548. і 552.)

г) $S_n = 2880°$

$(n-2)\cdot 180° = 2880°$

$n-2 = \frac{2880°}{180°}$

$n-2 = 16$

$n = 18$

$d_{18} = 18-3$

$d_{18} = 15$

$D_{18} = \frac{18\cdot(18-3)}{2}$

$D_{18} = \frac{18\cdot 15}{2}$

$D_{18} = 135$

577. а) 8 діагоналей

$d_n = 8$

$d_n = n-3$

$n-3 = 8$

$n = 11$

$S_n = (n-2)\cdot 180°$

$S_n = 9\cdot 180°$

$S_n = 1620°$

б) $d_n = 11$

$d_n = n-3$

$d_n = n-3 = 11$

$n = 14$

$S_{14} = (14-2)\cdot 180°$

$S_{14} = 12\cdot 180°$

$S_{14} = 2160°$

в) $d_n = 18$

$n-3 = 18$

$n = 21$

$S_{21} = (21-2)\cdot 180°$

$S_{21} = 19\cdot 180°$

$S_{21} = 3420°$