$a_n = a_1 + (n-1)d$.

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4.1

A(5):

1) $S_n = \frac{n(a_1+a_n)}{2}$ $n=27$. $a_1 = \frac{1}{13}$

2) $S_n = na_1 + \frac{n(n-1)}{2}d$ $a_1 = 11$. $a_{37} = 23$

3) $S_n = na_1 + \frac{n(n-1)}{2}d$ $n = 15$ $a_n = -\frac{3}{2}$

4) $a_1 = a_{15} - (n-1)d = -22$ $S_{15} = \frac{n(a_1+a_{15})}{2} = -224$

6. 1) ~~$S_{15} - S_5 = S_{10}$~~

$\begin{cases} 15 = 10a_1 + 5d \\ -5 = 5a_1 + \frac{5\times4}{2}d \end{cases} \Rightarrow \begin{cases} a_1 = -5 \\ d = 3 \end{cases} \Rightarrow S_8 = 8a_1 + 28d = 44$

2) $\begin{cases} 2 = 4a_1 + 6d \\ -6 = 10a_1 + 36d \end{cases} \Rightarrow \begin{cases} a_1 = \frac{6}{5} \\ d = -\frac{7}{15} \end{cases} \Rightarrow S_{12} = 12a_1 + 66d = -\frac{52}{5}$

7. 1) ~~$S_{10} - S_7$~~ $= S_{17} = \frac{17(a_1+a_{17})}{2} = 0$

2) $a_1 + a_{21} = \frac{2S_{21}}{n} = 42$ $a_{11} = \frac{a_1+a_{21}}{2} = 21$.

3) $a_1 + a_{20} = 1$. $\therefore S = \frac{20(a_1+a_{20})}{2} = 10$

4) $S_{16} = 2 + (2+a_{20}) + (2+a_{21}) = 16 + (a_{20}+a_{21}) = 14$.

8. 因为 a_1, a_2, a_3. $\begin{cases} a_1+a_2+a_3 = 180 \\ a_1+a_3 = 2a_2 \end{cases} \Rightarrow a_2 = 60^\circ$, 等差数列

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1.

10-1 + 45-4

9. $S_4=3$. $S_9-S_6=4$

$\begin{cases} 3a_1+\frac{3\cdot2}{2}d=3 \\ 9a_1+\frac{9\cdot8}{2}d-6a_1-\frac{6\cdot5}{2}d=4 \end{cases} \Rightarrow \begin{cases} a_1=\frac{17}{18} \\ d=\frac{1}{18} \end{cases} \Rightarrow a_5=a_1+(n-1)d = \frac{7}{6}$

13.

14. 1) ✓ 2) ✓

2. 1) $\sum_1^{16} a_{2i-1} = a_1+a_3+a_5+\cdots+a_{15} = 8a_1+\frac{8(8-1)}{2}d = 140$

2) $\sum_1^{16} a_{2i} = 200$