

9

1.

n :

$$(n^3+8)+(3n^2+6n)=(n+2)(n^2-2n+4)+3n(n+2)=(n+2)(n^2+n+4)$$

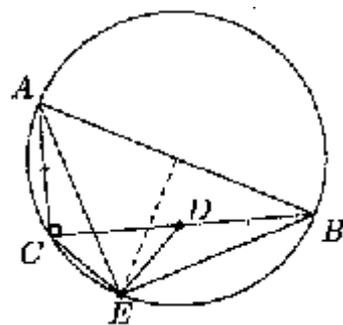
2.

28, 25, 1, 7, 3.

: 1, 2, 4, 5, 6, 7.

3.

E – AB, AE = BE.
 CAE EBC,
 , AC = BD.
 $\angle CEA = \angle BED$. $\angle DEC = \angle BEA = 90^\circ$, $\angle BEA = \angle BCA$.



4. $(ac+bd)(ad+bc)=0, \quad ac+bd=0.$
 $a^2cd+b^2cd+c^2ab+d^2ab=0 \quad (a^2+b^2)cd+(c^2+d^2)ab=0.$
 $a^2+b^2=1 \quad c^2+d^2=1 \quad ab+cd=0.$

5. \dots 20
 \dots 10
 \dots 20
 \dots 10 10
 \dots 10
 4 $4, 4$ 2 \dots 8 \dots 4
 18 \dots 2
 $-$ \dots
 $1-$ $2-$ 8 \dots $- 3-$ $4-$ \dots
 $-$ \dots
 \dots $1-$ $2-$ \dots
 \dots 16
 \dots 8
 $3-$ $4-$ 8
 \dots $1-$ $2-$ \dots
 $2-$ \dots 16 \dots $1-$
 \dots 8 \dots
 \dots $3-$ $4-$ \dots
 16 \dots $5-$ 8 \dots