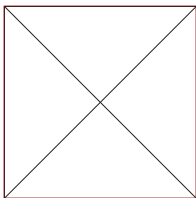
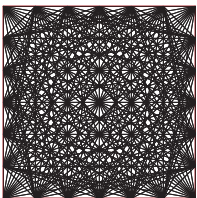
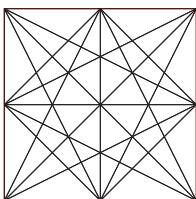
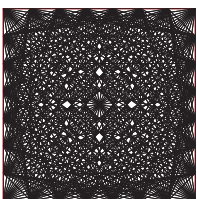
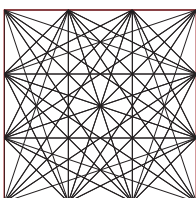
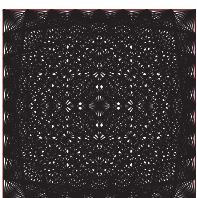
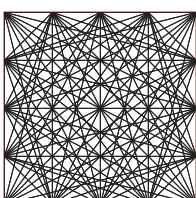
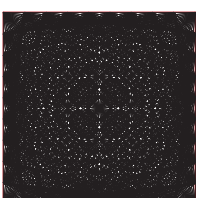
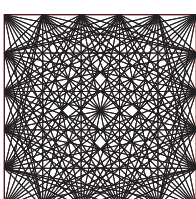
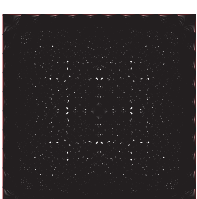
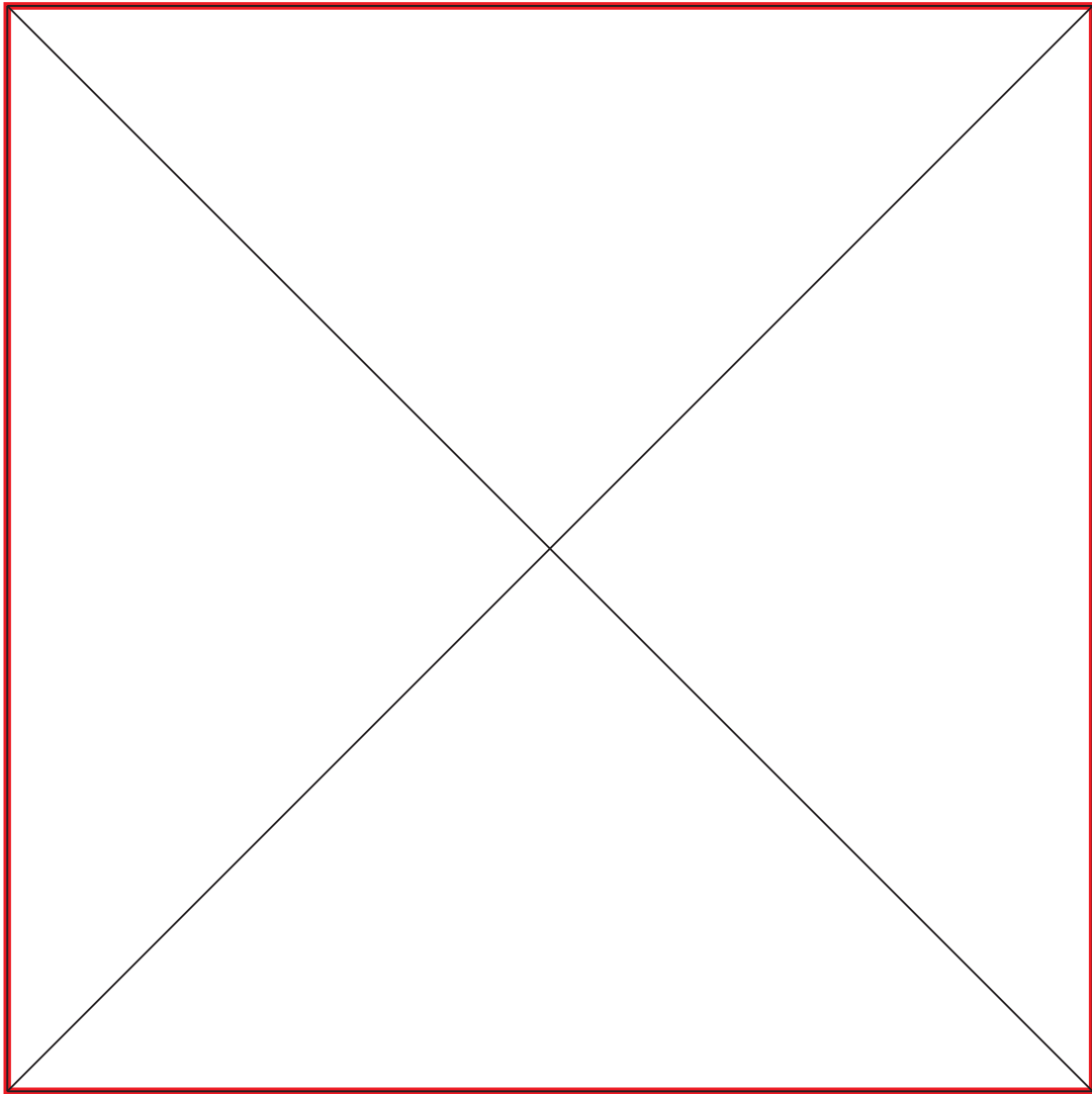


OEIS SEQUENCE  
**A255011**

The number of polygons formed by connecting  $n$  evenly spaced points on each side of a square by straight lines.

| $n$ | Diagram   | $A255011(n)$ | Number of edges | $n$ | Diagram  | $A255011(n)$ | Number of edges |
|-----|---|--------------|-----------------|-----|--|--------------|-----------------|
| 1   |    | 4            | 8               | 6   |    | 6,264        | 11,088          |
| 2   |    | 56           | 92              | 7   |    | 13,968       | 26,260          |
| 3   |   | 340          | 596             | 8   |   | 22,904       | 42,144          |
| 4   |  | 1120         | 1936            | 9   |  | 38,748       | 72,296          |
| 5   |  | 3264         | 6020            | 10  |  | 58,256       | 107,832         |

$$n = 1$$



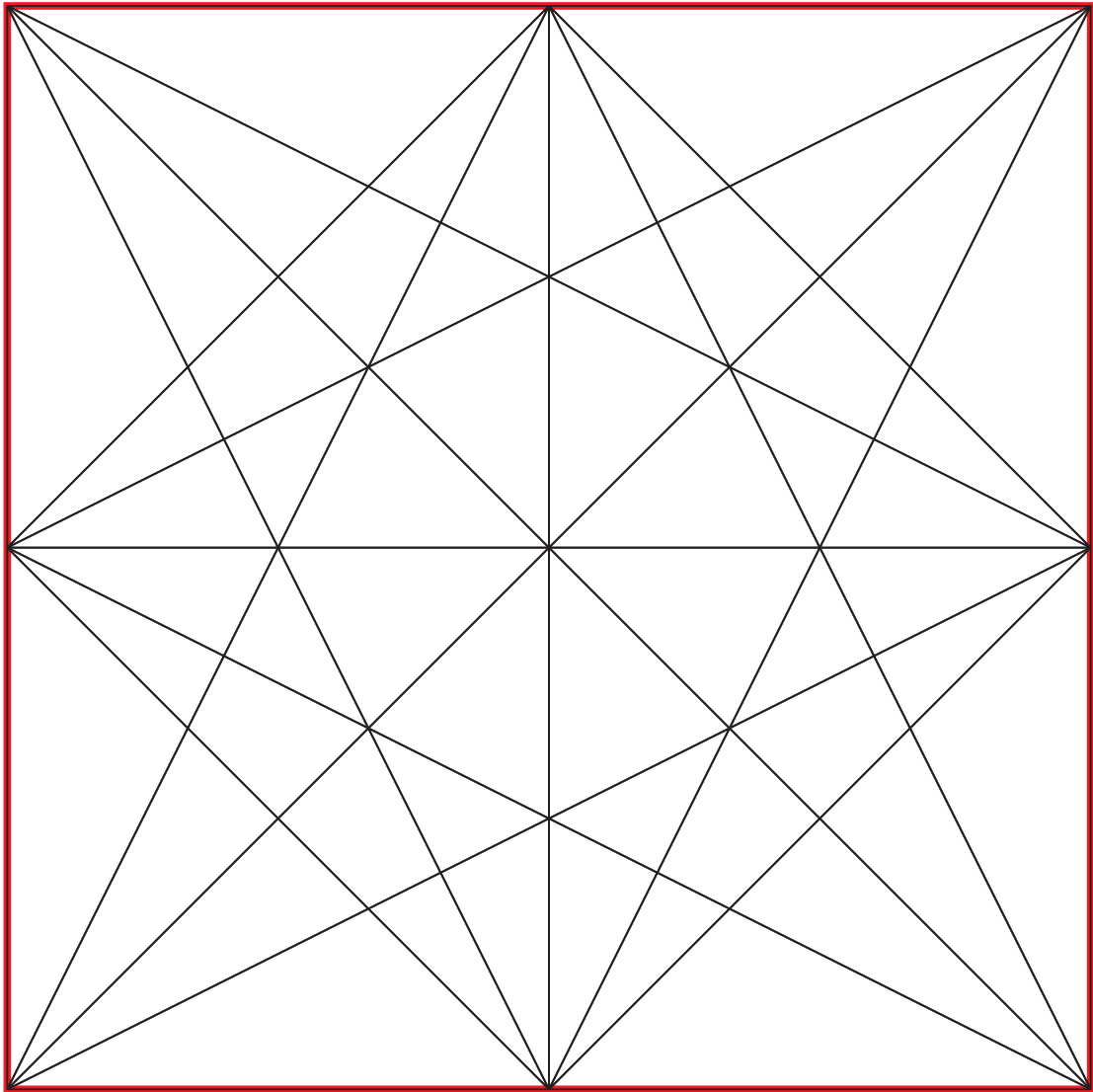
$A_{255011}(1)$

4

Number of edges

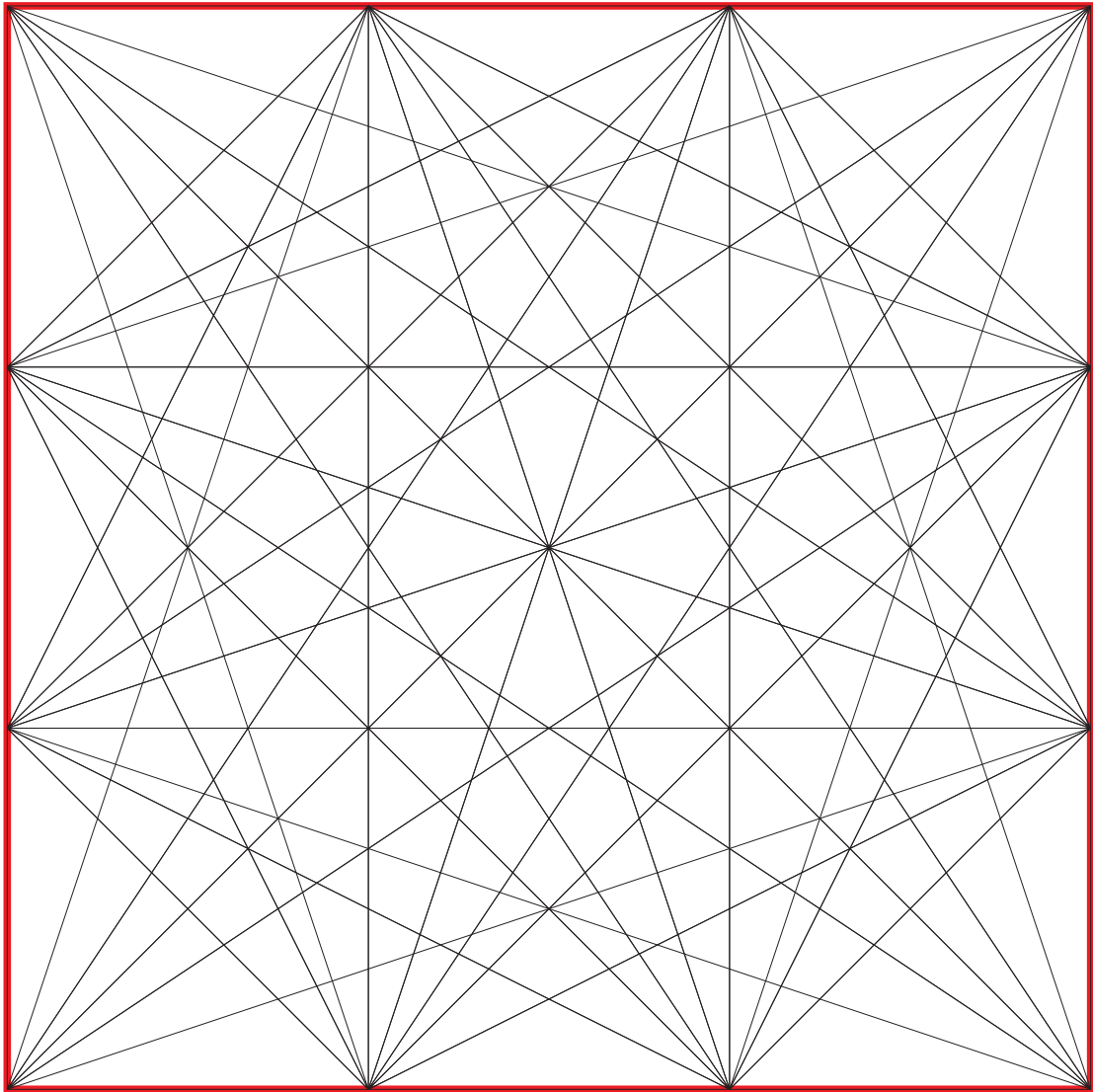
8

$$n = 2$$



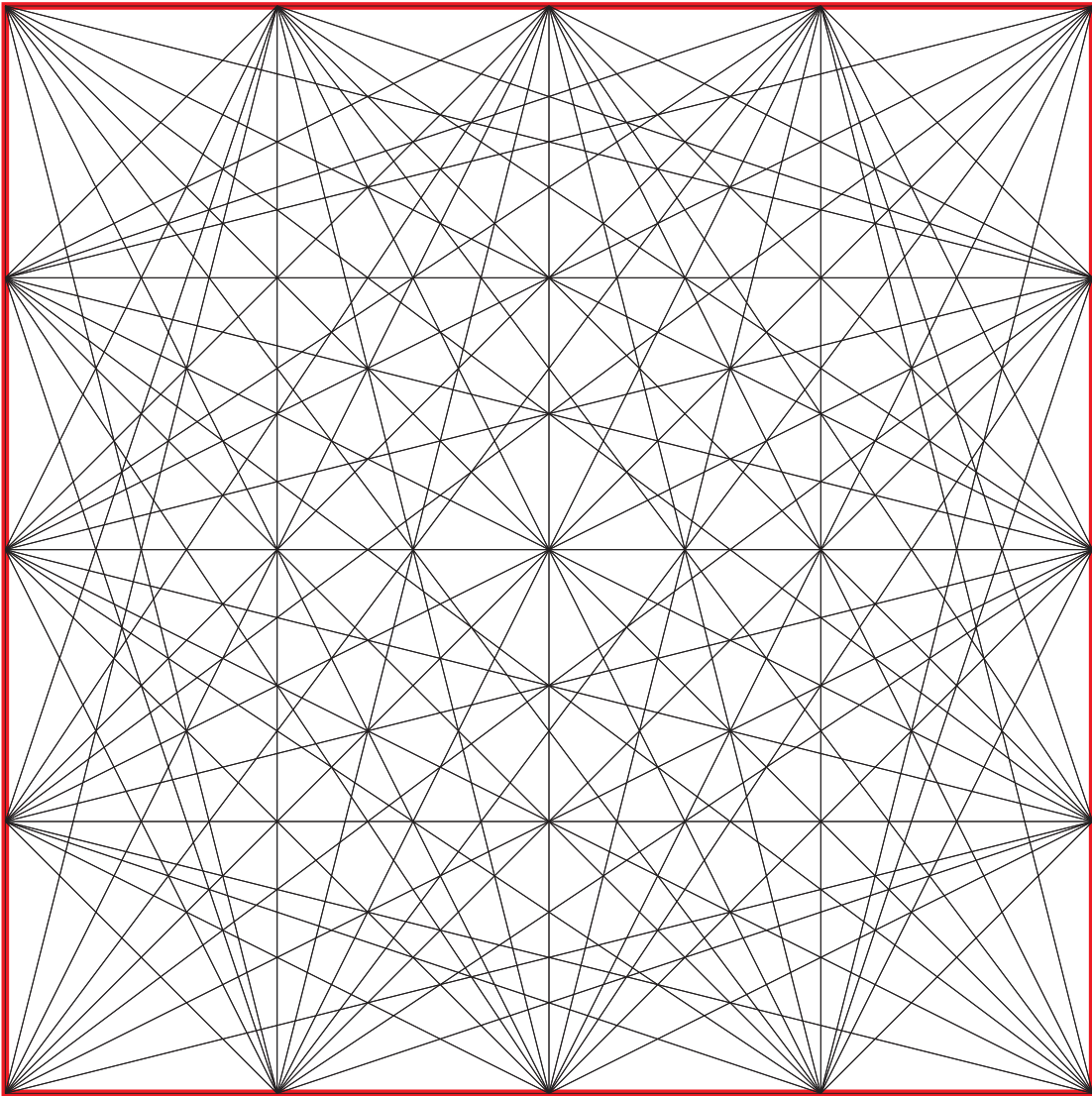
|                 |    |
|-----------------|----|
| $A_{255011}(2)$ | 56 |
| Number of edges | 92 |

$$n = 3$$



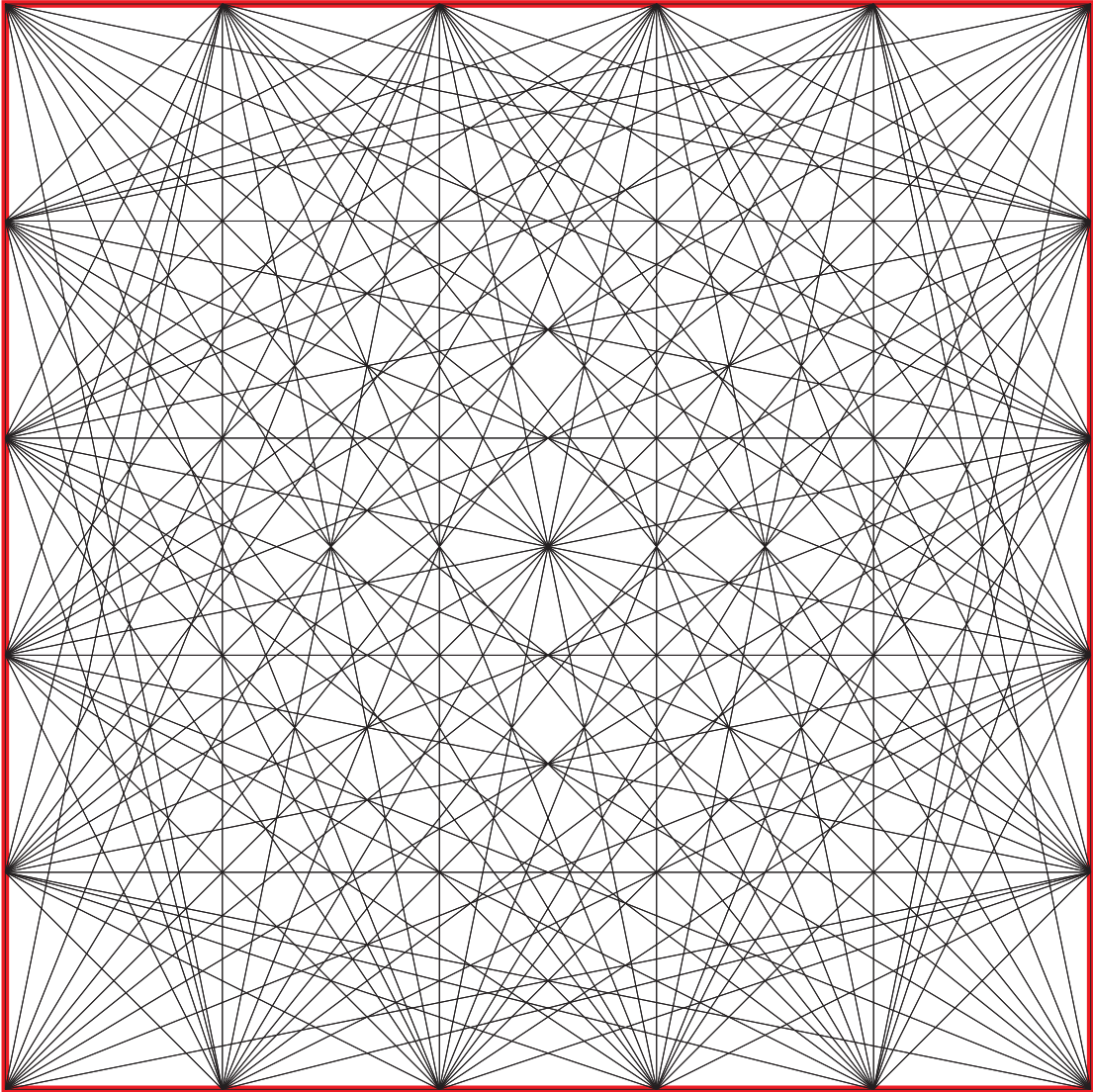
|                 |     |
|-----------------|-----|
| $A_{255011}(3)$ | 340 |
| Number of edges | 596 |

$$n = 4$$



|                 |      |
|-----------------|------|
| $A_{255011}(4)$ | 1120 |
| Number of edges | 1936 |

$$n = 5$$



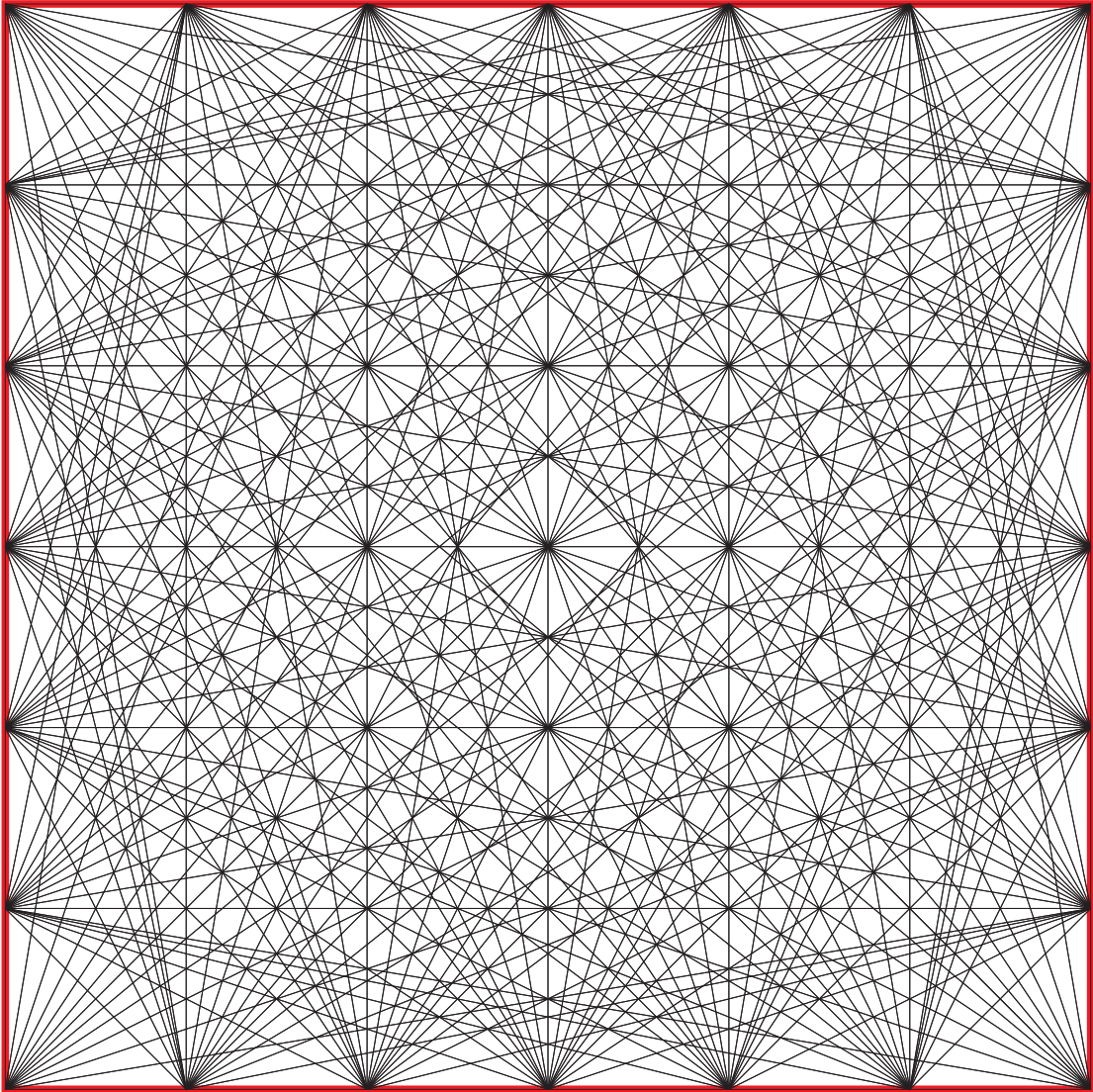
$A_{255011}(5)$

3264

Number of edges

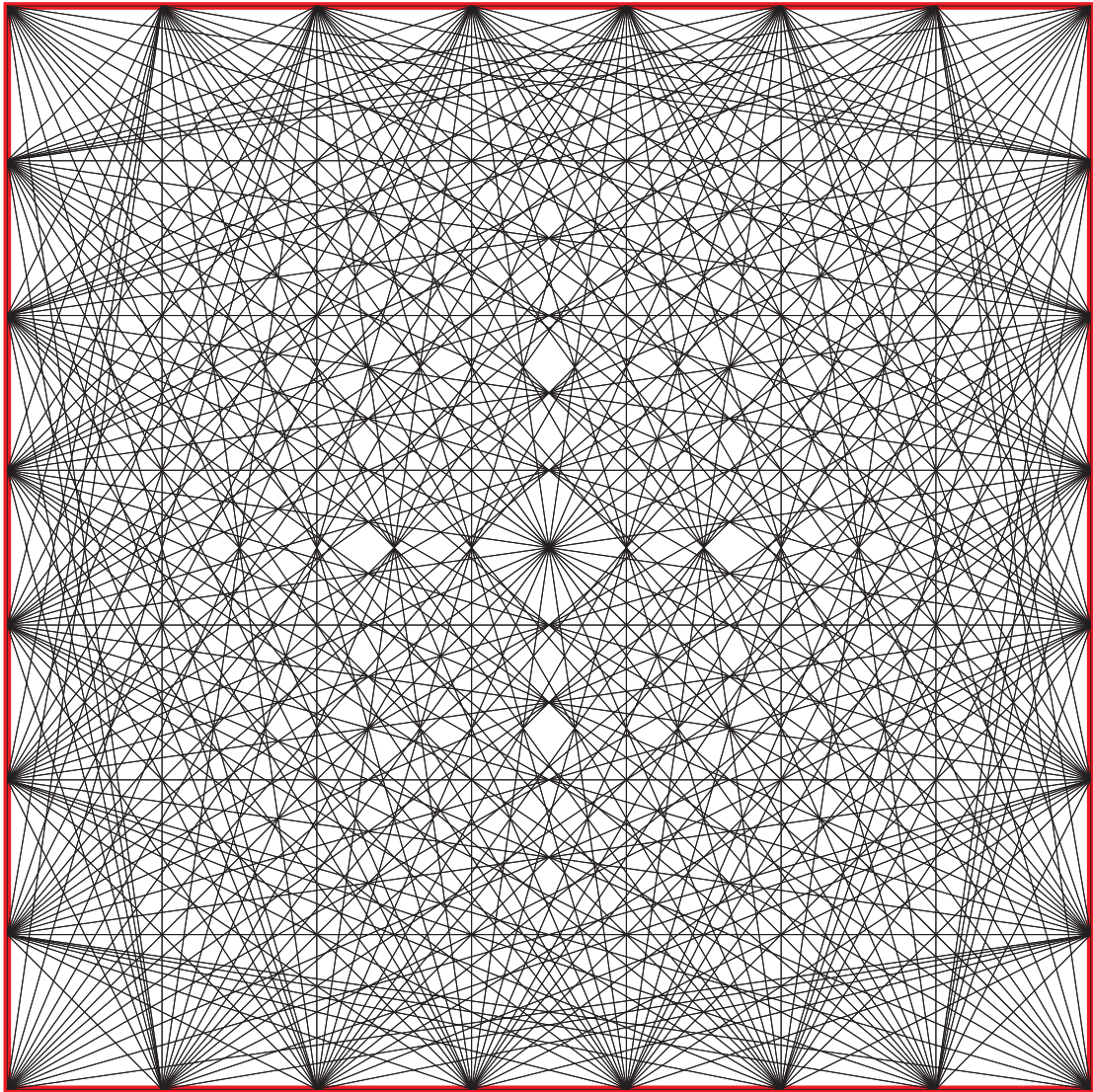
6020

$$n = 6$$



|                 |        |
|-----------------|--------|
| $A_{255011}(6)$ | 6,264  |
| Number of edges | 11,088 |

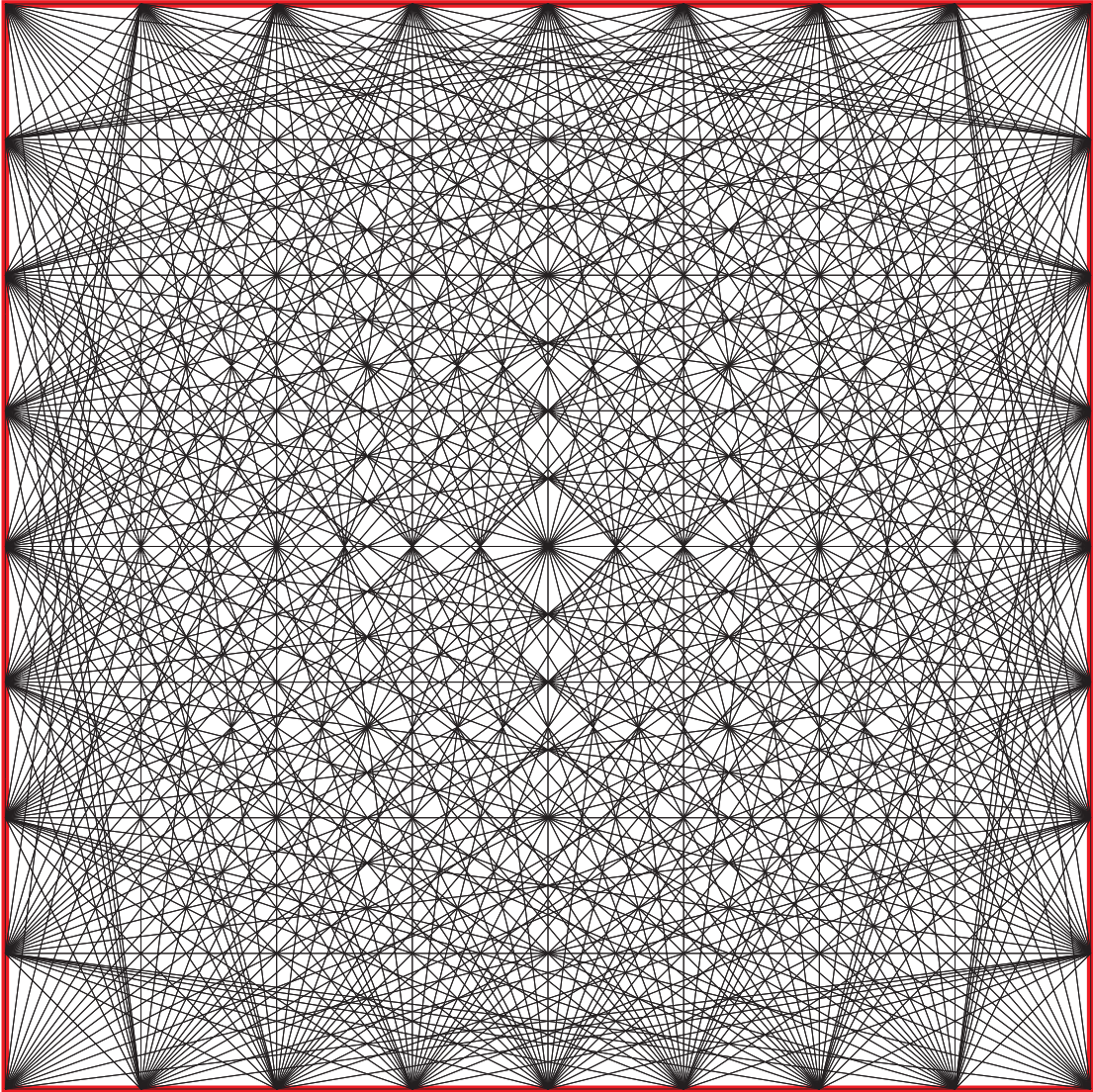
$$n = 7$$



|                 |        |
|-----------------|--------|
| $A_{255011}(7)$ | 13,968 |
| Number of edges | 26,260 |

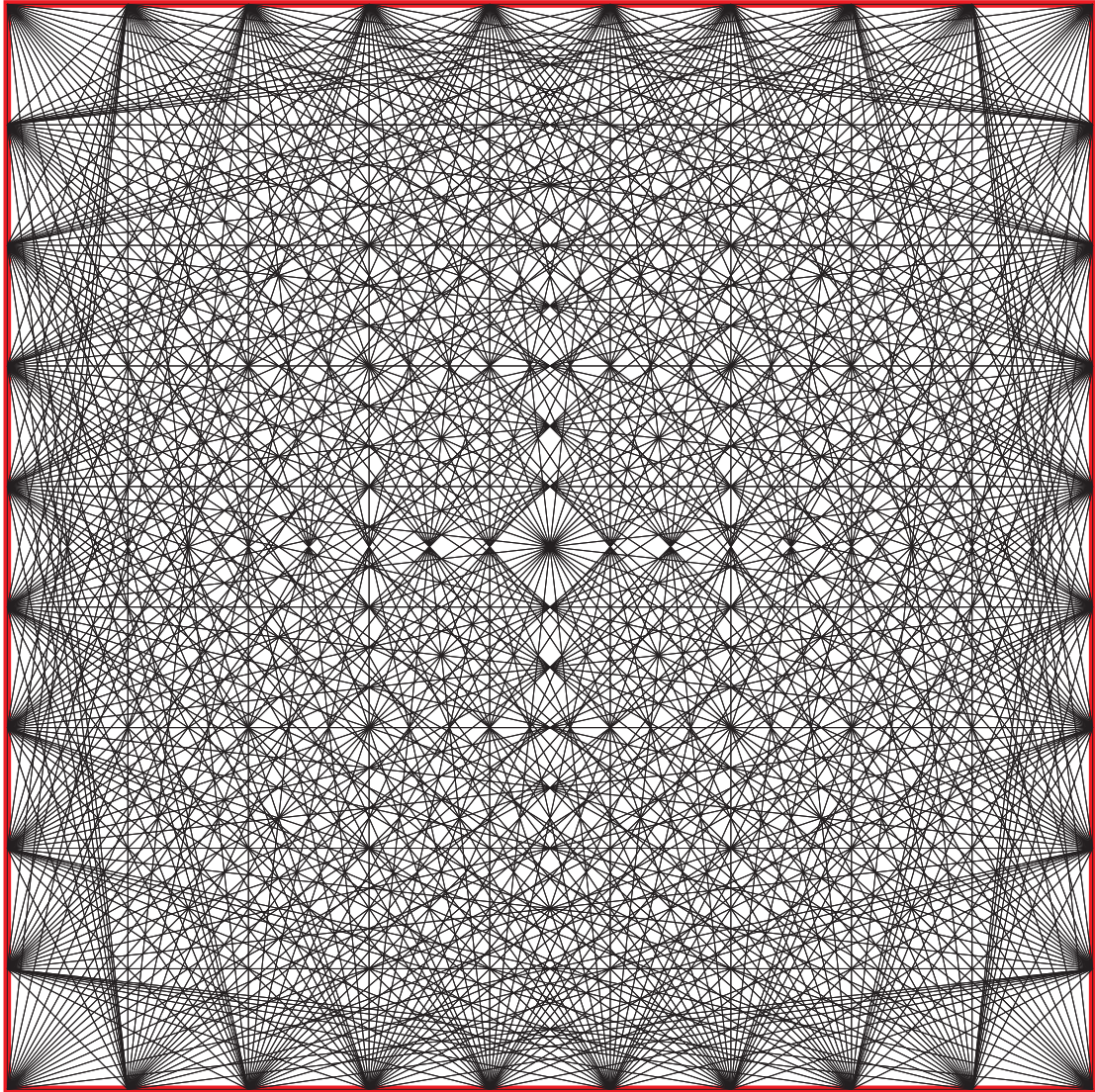


$$n = 8$$



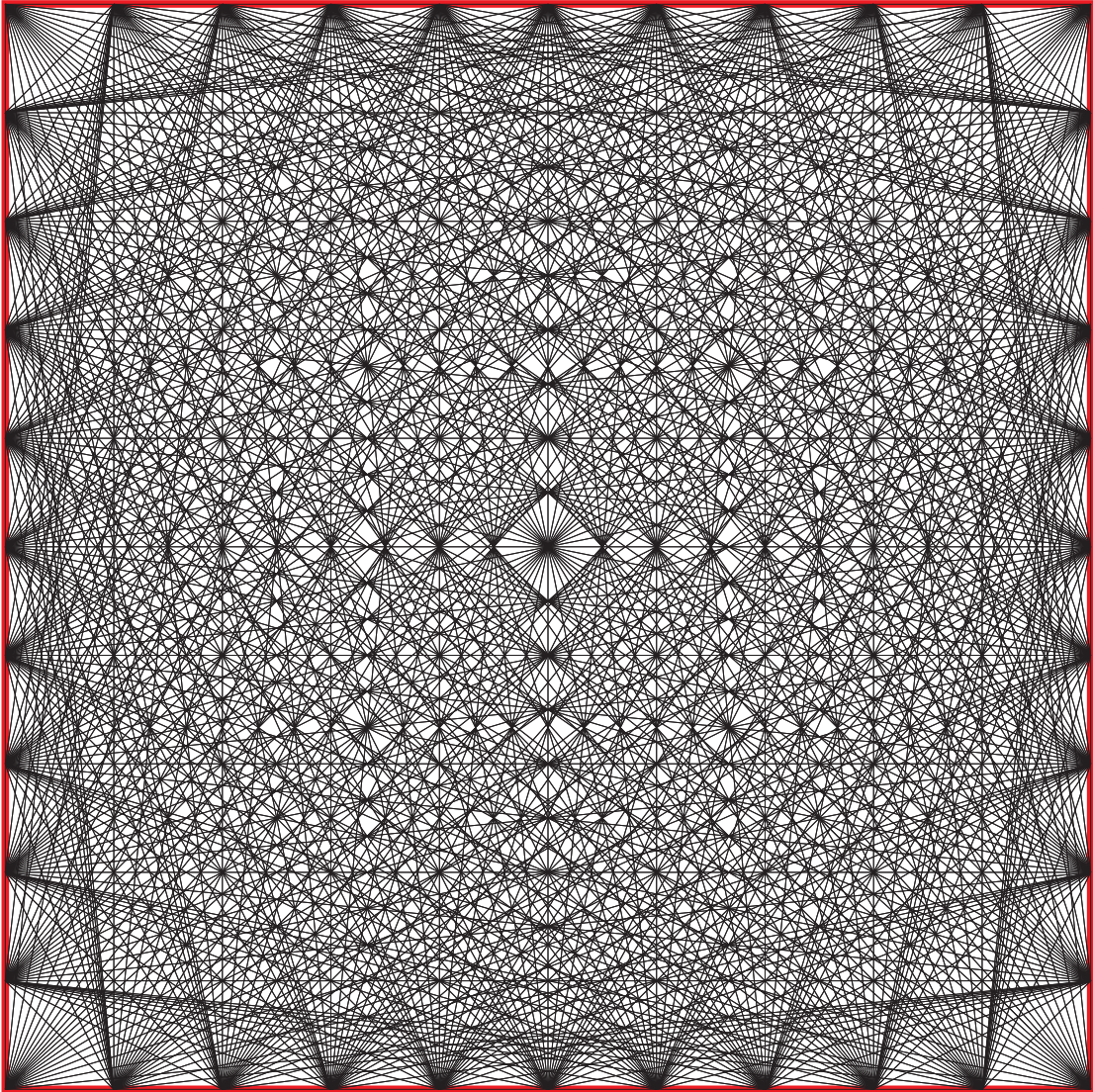
|                 |        |
|-----------------|--------|
| $A_{255011}(8)$ | 22,904 |
| Number of edges | 42,144 |

$$n = 9$$



|                 |        |
|-----------------|--------|
| $A_{255011}(9)$ | 38,748 |
| Number of edges | 72,296 |

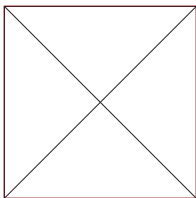
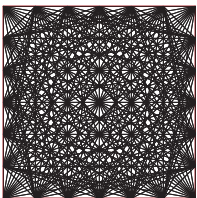
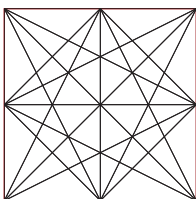
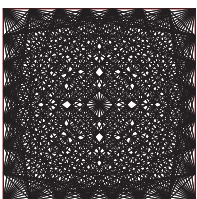
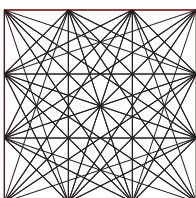
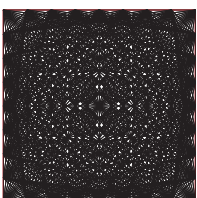
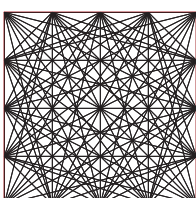
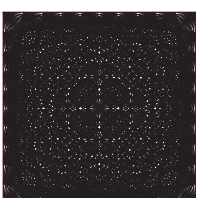
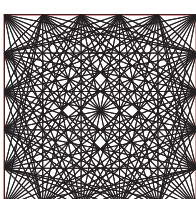
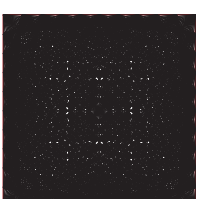
$$n = 10$$



|                  |         |
|------------------|---------|
| $A_{255011}(10)$ | 58,256  |
| Number of edges  | 107,832 |

OEIS SEQUENCE  
**A255011**

The number of polygons formed by connecting  $n$  evenly spaced points on each side of a square by straight lines.

| $n$ | Diagram   | $A255011(n)$                   | Number of edges                        | $n$ | Diagram  | $A255011(n)$                       | Number of edges                            |
|-----|---|--------------------------------|--|-----|--|------------------------------------|--|
| 1   |    | 4<br>$2^2$                     | 8<br>$2^3$                             | 6   |    | 6,264<br>$2^3 \cdot 3^3 \cdot 29$  | 11,088<br>$2^4 \cdot 3^2 \cdot 7 \cdot 11$ |
| 2   |    | 56<br>$2^3 \cdot 7$            | 92<br>$2^2 \cdot 23$                   | 7   |    | 13,968<br>$2^4 \cdot 3^2 \cdot 97$ | 26,260<br>$2^2 \cdot 5 \cdot 13 \cdot 101$ |
| 3   |   | 340<br>$2^2 \cdot 5 \cdot 17$  | 596<br>$2^2 \cdot 149$                 | 8   |   | 22,904<br>$2^3 \cdot 7 \cdot 409$  | 42,144<br>$2^5 \cdot 3 \cdot 439$          |
| 4   |  | 1120<br>$2^6 \cdot 5 \cdot 7$  | 1936<br>$2^4 \cdot 11^2$               | 9   |  | 38,748<br>$2^2 \cdot 3 \cdot 3229$ | 72,296<br>$2^3 \cdot 7 \cdot 1291$         |
| 5   |  | 3264<br>$2^6 \cdot 3 \cdot 17$ | 6020<br>$2^2 \cdot 5 \cdot 7 \cdot 43$ | 10  |  | 58,256<br>$2^4 \cdot 11 \cdot 331$ | 107,832<br>$2^3 \cdot 3 \cdot 4493$        |