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*统计截至2024.8.27*

### Compass-straightedge Pzls Other

目前13题

|  |  |  |
| --- | --- | --- |
| 01 Conway圆 | 02 Malfatti问题 | 03 垂心内心一边直线 |
| Compass-straightedge_Pzls_Other001 | Compass-straightedge_Pzls_Other002 | Compass-straightedge_Pzls_Other003 |
| 04 外心内心一边直线 | 05 正八边形 | 06 垂心内心外心还原等腰 |
| Compass-straightedge_Pzls_Other004 | Compass-straightedge_Pzls_Other005 | Compass-straightedge_Pzls_Other006 |
| 07 平方和轨迹 | 08 三角形双分线 | 09 伪内切圆 |
| Compass-straightedge_Pzls_Other007 | Compass-straightedge_Pzls_Other008 | Compass-straightedge_Pzls_Other009 |
| 10 阿波罗尼奥斯-点点圆 | 11 阿波罗尼奥斯-线线圆 | 12 四边形质心 |
| Compass-straightedge_Pzls_Other010 | Compass-straightedge_Pzls_Other011 | Def |
| 13 第一Lemoine圆 | 14 圆切接正6 | 15 正5转等积正方 |
| Def |  |  |

|  |  |  |
| --- | --- | --- |
| 16 两点圆截线弦min | 17 两点圆截圆弦min | 18 线上圆截圆直径 |
|  |  |  |
| 19 半垂弦 | 20 复制角 | 21 60°截线最短 |
|  |  | Def |
| 22 过2点圆与圆正交 | 23 平行4等线 | 24 平行过点线等腰 |
| IMG_256 |  |  |
| 25 过点弦等线段 | 26 边距和恒等线 | 27 切线长等距 |
|  | Def | Def |
| 28 内接三角形平方和最小 | 29 角差45度 | 30 圆心为垂心 |
| Def | Def | Def |

|  |  |  |
| --- | --- | --- |
| 31 中点旋风 | 32 过点截弦相等 | 33 PLC对径点 |
| Def | Def | Def |
| 34 旁切圆与外接圆交点 | 35 | 36 |
| Def |  |  |

### Euc Addit

共5题

|  |  |  |
| --- | --- | --- |
| 01 双圆梯形 | 02 四边形角平分线 | 03 截线等长 |
| Euc_Addit01 | Euc_Addit02 | Euc_Addit03 |
| 04 根轴 | 05 等面积三角形 | 06 3倍角 |
| Euc_Addit04 | Euc_Addit05 | Def |

带题干版

|  |  |  |
| --- | --- | --- |
| Def | Def | Def |
| Def | Def | Def |

### From Baidu Tieba

目前32题

|  |  |  |
| --- | --- | --- |
| 01 2.024线段 | 02 圆内2点到直径端点等距 | 03 线外点与垂足中点 |
| Def | tb2 | Def |
| 04 点圆根轴 | 05 线截过2点圆弧1:2 | 06 角内等腰△四点共圆 |
| Def | Def | Def |
| 07 给欧拉线和两边复原△ | 08 平行反弹线 | 09 双心四边形 |
| Def | Def | Def |
| 10 角内过点弦四点共圆 | 11 圆上过点圆切圆 | 12 △过高上一点垂足Rt△ |
| Def | Def | Def |

|  |  |  |
| --- | --- | --- |
| 13 第二Lemoine圆 | 14 顶点分△等内切圆 | 15 Miquel点 |
| Def | Def | Def |
| 16 Dumpty点 | 17 垂线分三角形面积 | 18 角内过点截等线 |
| Def | Def | Def |
| 19 角内三截线和 | 20 角内给顶点作正三 | 21 过2点圆截线定长 |
| Def | Def | Def |
| 22 等角双线段 | 23 圆上两点截弦中点 | 24 给一顶点和IH复原△ |
| Def | Def | Def |

|  |  |  |
| --- | --- | --- |
| 25 过点分△周长 | 26 广义垂足三角形等积 | 27 △共点平行边3等长线 |
| Def | Def | Def |
| 28 过角内点△周长min | 29 过角内点截2射线min | 30 PCC等圆中垂点 |
| Def | Def | Def |
| 31 伪垂足三角形 | 32 鱼眼透视 | 33 三角形转等积正三 |
| Def | Def | Def |
| 34 | 35 | 36 |
|  |  |  |

### SprFes2024

共5题

|  |  |  |
| --- | --- | --- |
| 01 五边形矩形 | 02 正十边形 | 03 等面积直角三角形 |
| SprFes2024-01 | SprFes2024-02 | SprFes2024-03 |
| 04 质心内心一边直线 | 05 角平分线上切线三角形 |  |
| SprFes2024-04 | SprFes2024-05 |  |

带题干版

|  |  |  |
| --- | --- | --- |
| Def | Def | Def |
| Def | Def |  |

### Straightedge only Pzls

基础关卡（12题）

|  |  |  |
| --- | --- | --- |
| 01 平行线作中点 | 02 中点作平行线 | 03 平行线作平行线 |
| Straightedge-only_Pzls_Basic01 | Straightedge-only_Pzls_Basic02 | Straightedge-only_Pzls_Basic03 |
| 04 平行线倍长 | 05 中点作对称 | 06 垂线作对称 |
| Straightedge-only_Pzls_Basic04 | Straightedge-only_Pzls_Basic05 | Straightedge-only_Pzls_Basic06 |
| 07 角平分线作垂直 | 08 圆外一点作垂线 | 09 圆上一点作垂线 |
| Straightedge-only_Pzls_Basic07 | Straightedge-only_Pzls_Basic08 | Straightedge-only_Pzls_Basic09 |
| 10 圆径一点作垂线 | 11 圆上一点作切线 | 12 圆外一点作切线 |
| Straightedge-only_Pzls_Basic10 | Straightedge-only_Pzls_Basic11 | Straightedge-only_Pzls_Basic12 |

进阶关卡（目前15+7题）

|  |  |  |
| --- | --- | --- |
| 01 径倍角找心 | 02 径弦30°找心 | 03 径弦22.5°找心 |
| {A5464336-7F4B-41d9-BCE3-D82B97285361} | {A5464336-7F4B-41d9-BCE3-D82B97285361} | {A5464336-7F4B-41d9-BCE3-D82B97285361} |
| 04 径弦15°找心 | 05 内心作外心 | 06 垂心作外心 |
| {A5464336-7F4B-41d9-BCE3-D82B97285361} | {A5464336-7F4B-41d9-BCE3-D82B97285361} | {A5464336-7F4B-41d9-BCE3-D82B97285361} |
| 07 双圆相交找心 | 08 双同心圆找心 | 09 径弦4:1找心 |
| {A5464336-7F4B-41d9-BCE3-D82B97285361} | {A5464336-7F4B-41d9-BCE3-D82B97285361} | {A5464336-7F4B-41d9-BCE3-D82B97285361} |
| 10 径弦2:1找心 | 11 旁心作外心 | 12 外心等腰150° |
| {A5464336-7F4B-41d9-BCE3-D82B97285361} | {A5464336-7F4B-41d9-BCE3-D82B97285361} | {A5464336-7F4B-41d9-BCE3-D82B97285361} |

|  |  |  |
| --- | --- | --- |
| 13 根轴上点找心 | 14 五点共圆找心 | 15 双圆等腰找心 |
| {A5464336-7F4B-41d9-BCE3-D82B97285361} | {A5464336-7F4B-41d9-BCE3-D82B97285361} | {A5464336-7F4B-41d9-BCE3-D82B97285361} |
| **Additional** | | |
| A01 等弦 | A02 卡斯蒂朗问题 | A03 内心Rt45 |
| A1C2000A9F3830073CE3105BF40C765A | {D6DA8580-D1D4-4816-ADCC-358B5DE0935C} | {A5464336-7F4B-41d9-BCE3-D82B97285361} |
| A04 圆心作垂 | A05 三边过点三角形 | A06 三线上外切三角形 |
| {A5464336-7F4B-41d9-BCE3-D82B97285361} | {A5464336-7F4B-41d9-BCE3-D82B97285361} | {A5464336-7F4B-41d9-BCE3-D82B97285361} |
| A07 3单位长 | A08 | A09 |
| Def |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

### XEuclidea Puzzle

详见XEP Images Overview.md