

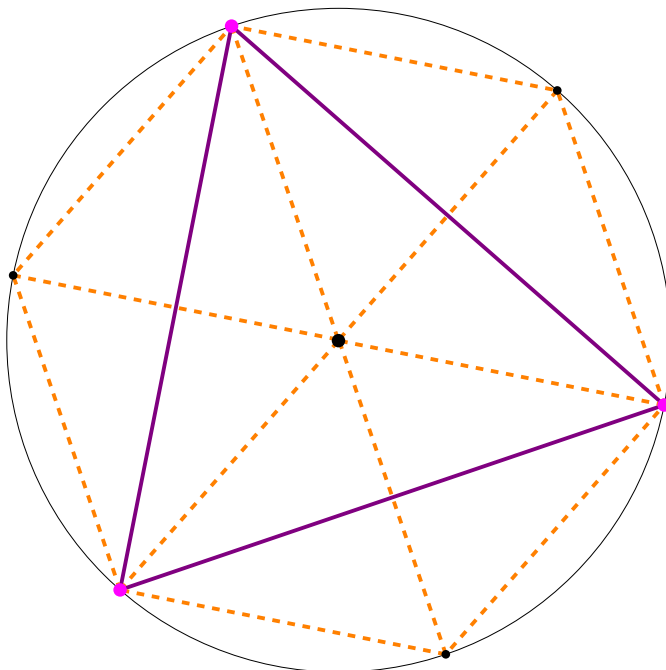
# 圆和内接三角形的面积

```

In[ ]:= DynamicModule[{r = 2, vs, oc, lineTri}, vs = r RandomPoint[Circle[], 3];
  LocatorPane[Dynamic[vs, (vs = r Map[Normalize, #] &),
    Dynamic@Graphics[oc = TriangleCenter[vs, "Orthocenter"];
      lineTri = Append[vs, First@vs];
      ps = Table[v[[1]] + v[[2]] - oc, {v, Partition[lineTri, 2, 1]};
      oc2 = TriangleCenter[ps, "Orthocenter"];
      {{Circle[{0, 0}, r]}, {Purpl, Thick, Line[lineTri]}},
      {Orange, Thick, Dashed, Line[Riffle[lineTri, ps]]}, {Orange, Thick, Dashed,
      Line[{#, oc} & /@ vs]}, {Orange, Thick, Dashed, Line[{#, oc2} & /@ ps]},
      {Magenta, PointSize[Large], Point[vs]},
      {Black, PointSize[Medium], Point[ps]}, {PointSize[Large], Point[oc]}}],
    Appearance -> None]]

```

Out[ ]:=



In[ ]:= ? \*Matrix\*

Out[ ]=

## System`

AdjacencyMatrix	MatrixExp
AntihermitianMatrixQ	MatrixForm
AntisymmetricMatrixQ	MatrixFunction
BoxMatrix	MatrixLog
CircularOrthogonalMatrixDistribution	MatrixNormalDistribution
CircularQuaternionMatrixDistribution	MatrixPlot
CircularRealMatrixDistribution	MatrixPower
CircularSymplecticMatrixDistribution	MatrixPropertyDistribution
CircularUnitaryMatrixDistribution	MatrixQ
ControllabilityMatrix	MatrixRank
CrossMatrix	MatrixTDistribution
DesignMatrix	NegativeDefiniteMatrixQ
DiagonalizableMatrixQ	NegativeSemidefiniteMatrixQ
DiagonalMatrix	NormalMatrixQ
DiagonalMatrixQ	ObservabilityMatrix
DiamondMatrix	OrthogonalMatrixQ
DiskMatrix	OutputControllabilityMatrix
DistanceMatrix	PauliMatrix
EdgeCycleMatrix	Plot3Matrix
EulerMatrix	PositiveDefiniteMatrixQ
FourierDCTMatrix	PositiveSemidefiniteMatrixQ
FourierDSTMatrix	ReflectionMatrix
FourierMatrix	RollPitchYawMatrix
GaborMatrix	RotationMatrix
GaussianMatrix	SavitzkyGolayMatrix
GaussianOrthogonalMatrixDistribution	ScalingMatrix
GaussianSymplecticMatrixDistribution	ShearingMatrix
GaussianUnitaryMatrixDistribution	ShenCastanMatrix
GraphDistanceMatrix	SquareMatrixQ
HadamardMatrix	SymmetricMatrixQ
HankelMatrix	ToeplitzMatrix
HermitianMatrixQ	TransformationMatrix
HilbertMatrix	UnitaryMatrixQ
IdentityMatrix	UpperTriangularMatrixQ
IncidenceMatrix	ViewMatrix
IndefiniteMatrixQ	WaveletMatrixPlot
InverseWishartMatrixDistribution	WeightedAdjacencyMatrix
KirchhoffMatrix	WishartMatrixDistribution
LowerTriangularMatrixQ	

Symbol ?

FourierMatrix[n] 返回  $n \times n$  傅立叶矩阵.

▼

In[ ]:= **Partition**

划分

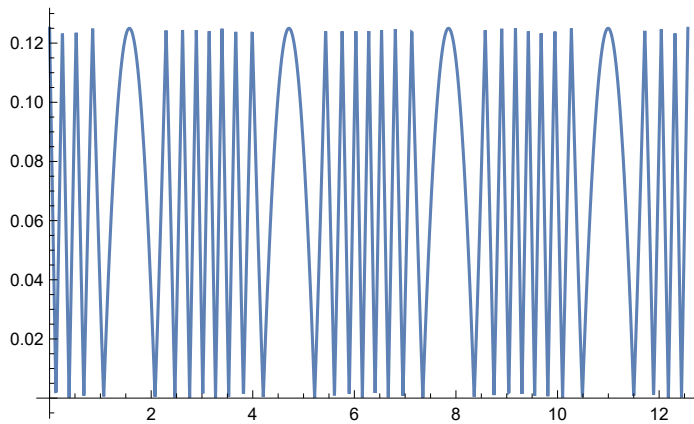
Out[ ]:=

Partition

In[ ]:= **Plot**[Abs[Abs[Abs[Sin[x]] - 0.5] - 0.25] - 0.125], {x, 0, 4  $\pi$ }]

绘图 ... 正弦

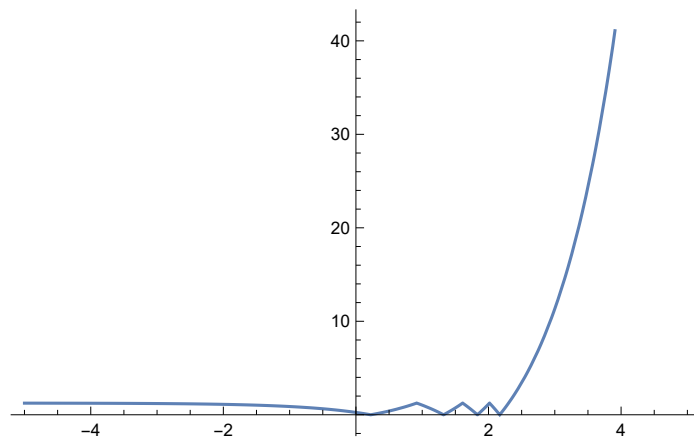
Out[ ]:=



In[ ]:= **Plot**[Abs[Abs[Abs[Exp[x] - 5] - 2.5] - 1.25], {x, -5, 5}]

绘图 ... 指数形式

Out[ ]:=



In[ ]:= **Plot**[**Abs**[**Abs**[**Abs**[ $x^2 - 5$ ] - 2.5] - 1.25], {x, -5, 5}]

[绘图](#) [\[...\]](#) [\[...\]](#) [绝对值](#)

Out[ ]:=

