QGIS Application - Bug report #16717
curveToLine introduces duplicated points

2017-06-17 05:59 PM - Sandro Santilli

Status:	Closed			
Priority:	Normal			
Assignee:	Sandro Santilli			
Category:	Vectors			
Affected QGIS version:	master	**Regression?:**	No	
Operating System:		**Easy fix?:**	No	
Pull Request or Patch supplied:	Yes	**Resolution:**		
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	24616	

Description

Writing tests for QgsCircularString::curveToLine I found duplicated points in output.

Here's an example:

    CIRCULARSTRING(0 0, 1.0 1.0, 2 0)
        curveToLine(M_PI/8.0, QgsAbstractGeometry::MaximumAngle)
        LineString (0 0, 0.07612046748871326 0.38268343236508989, 0.29289321881345254 0.70710678118654757,
    0.61731656763491027 0.92387953251128674, 1 1, 1 1, 1.38268343236508984 0.92387953251128674,
    1.70710678118654746 0.70710678118654746, 1.92387953251128674 0.38268343236508978, 2 0)

Note the duplicated point (1 1) in the middle.

Related issues:

Related to QGIS Application - Bug report # 16722: Wrong result for curveToLin...	**Closed**	**2017-06-19**

Associated revisions

Revision 48c95399 - 2017-08-25 11:06 PM - Sandro Santilli

Refactor curveToLine to emit equidistant segments and fix some issues

Fixes #16717

Fixes #16722

Include tests

History

#1 - 2017-06-17 06:04 PM - Sandro Santilli

A testcase showing the incongruence is here: https://github.com/qgis/QGIS/pull/4746

#2 - 2017-06-19 01:35 PM - Sandro Santilli

- Related to Bug report #16722: Wrong result for curveToLine with max angle 70 on a semicircle added

#3 - 2017-07-21 12:07 PM - Sandro Santilli

- Assignee changed from Denis Rouzaud to Sandro Santilli

- Status changed from Open to In Progress

I'm taking this

#4 - 2017-08-11 06:29 PM - Sandro Santilli

- Pull Request or Patch supplied changed from No to Yes

The PR now also contains a fix for this bug, although I think a multi-arc curve would still have duplicated points (one for each arc)

#5 - 2017-08-22 07:15 PM - Sandro Santilli

New commit in the PR also fixes points duplication in multi-arc curves

#6 - 2017-08-25 11:06 PM - Sandro Santilli

- % Done changed from 0 to 100

- Status changed from In Progress to Closed

Applied in changeset commit:qgis|48c953991e15b56e9e9300ec8007d44ce1c64966.