Task 17-01

- Create a Python program called identify_element.py
- Using linear regression, write code to plot an interpolated curve based upon this table, and answer this question:

Your lab assistant distilled 50 g of a gas *T* (°C) V(L)into a cylinder, but he left without writing -5011.6 down what kind of gas it is. The cylinder has a pressure regulator that adjusts a piston to 14.0 keep the pressure at a constant 2.00 atm. To 50 16.2 identify the gas, you measure the cylinder 100 19.4 volume at several different temperatures, 150 21.8 acquiring the data shown at the right. What

• Upload your solution to the DIVE WISTON SHARE OIL It site

Task 17-02

 Create a Python program called euler_curve.py that plots the following 2D parametric curve from

- Display the arc length along this curve
- Plot the point at the limit as
- Upload your solution to the BNL QIS101 SharePoint site