1. Find a Cartesian equation of the parametric curve \((e^t - 1, e^{2t})\).

2. Give a parametric equation of the curve \(x^3 = y^2\).

3. Find the area enclosed by the curve \((t^2 - 2t, \sqrt{t})\) and the \(y\)-axis.

4. Find the length of the loop of the curve \((3t - t^3, 3t^2)\).

5. Find the points of intersection of the two parametric curves \((2t, 1 - 4t)\) and \((1 - t, 1 + t^2)\).