

8) Copy a sketch of the following below:

$$\begin{aligned} \text{a) } x &= t^3 - 2t \\ y &= t^2 - t \end{aligned}$$

$$\begin{aligned} \text{b) } x &= \cos t \\ y &= \sin 2t \end{aligned}$$

$$\begin{aligned} \text{c) } x &= e^{\cos t} \\ y &= e^{\sin t} \end{aligned}$$

9) What is the difference between the following two parametric graphs:

$$\begin{aligned} x &= \cos t \\ y &= \sin t \end{aligned}$$

$$\begin{aligned} x &= \frac{1-t^2}{1+t^2} \\ y &= \frac{2t}{1+t^2} \end{aligned}$$