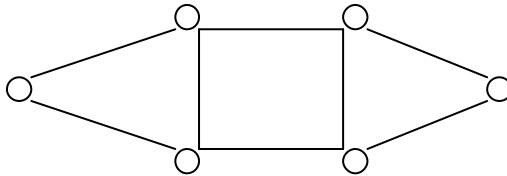


Exercises 2

1. How many circles (with no edges appearing more than one time in it) are contained in this graph?



2. List all bipartite graphs with each of the two constituting vertex sets having 2 elements.
3. List all functions of the set $\{ a; b; c \}$ into itself.
Which of them are bijective?
4. Which of the following functions $f: \mathbb{R} \rightarrow \mathbb{R}$ are bijective?

$$f(x) = 1$$
$$f(x) = 2x$$
$$f(x) = x^2$$
$$f(x) = 2^x$$
$$f(x) = x^3$$