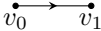


$v_0$



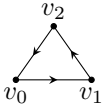
A single vertex labeled  $v_0$  is shown as a black dot with the label  $v_0$  positioned directly below it.

$v_0 \rightarrow v_1$



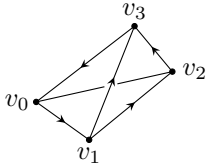
A directed edge connects two vertices labeled  $v_0$  and  $v_1$ . The edge is a horizontal line with an arrow pointing from  $v_0$  to  $v_1$ . The labels  $v_0$  and  $v_1$  are positioned below their respective vertices.

$v_0 \rightarrow v_1 \rightarrow v_2 \rightarrow v_0$



A directed cycle graph with three vertices labeled  $v_0$ ,  $v_1$ , and  $v_2$ . The vertices are arranged in a triangle. Directed edges connect  $v_0$  to  $v_1$ ,  $v_1$  to  $v_2$ , and  $v_2$  to  $v_0$ . The labels  $v_0$ ,  $v_1$ , and  $v_2$  are positioned below their respective vertices.

$v_0 \rightarrow v_1 \rightarrow v_2 \rightarrow v_3 \rightarrow v_0$



A directed cycle graph with four vertices labeled  $v_0$ ,  $v_1$ ,  $v_2$ , and  $v_3$ . The vertices are arranged in a diamond shape. Directed edges connect  $v_0$  to  $v_1$ ,  $v_1$  to  $v_2$ ,  $v_2$  to  $v_3$ , and  $v_3$  to  $v_0$ . Additionally, there are two internal directed edges: one from  $v_0$  to  $v_2$  and one from  $v_1$  to  $v_3$ . The labels  $v_0$ ,  $v_1$ ,  $v_2$ , and  $v_3$  are positioned below their respective vertices.