# NOTACIÓN CIENTIFICA

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TECNOLOGIA SUPERIOR EN ELECTROMECANICA
ULEAM


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# Contenido

# Introducción

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# Difiniciones

## Definition 2.1

A set $M \subseteq E(G)$ is an *edge dominating set of* $G$ if every $u \in E(G) \backslash M$ is adjacent to some $v \in M$. The *edge domination number of* $G$, denoted by $\gamma_e(G)$, is the minimum cardinality of an edge dominating set of $G$. Any edge dominating set of $G$ with cardinality $\gamma_e(G)$ is referred to as a $\gamma_e$*-set of* $G$.

# Definiciones

The sets $M_1 = \{a, c, f\}, M_2 = \{d, h\}$, and $M_3 = \{a, e, g, h\}$ are edge dominating sets of $G$ in Figure 1.5. Moreover, $M_2 = \{d, h\}$ is a minimum edge dominating set of $G$. Thus, $\gamma_e(G) = |M_2| = 2$.

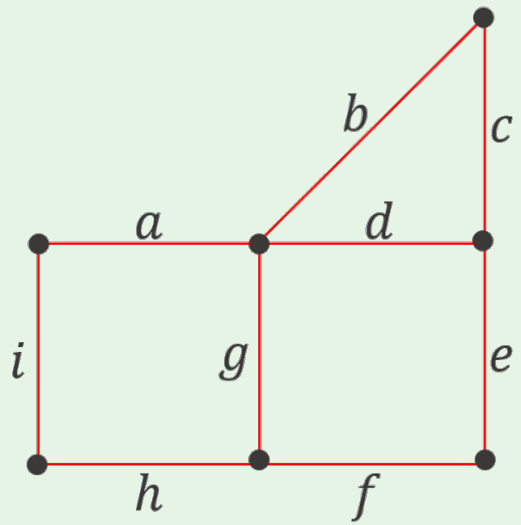



**Figure 1:** A graph $G$ with $\gamma_e(G) = 2$.

# Resultados

**Remark 3.1**

*A set $S$ is an outer-connected edge dominating set of a graph $G$ if $S$ is an edge dominating set such that $H_{E(G)\setminus S}$ does not have component isomorphic to $K_2$ or $S = E(G)$.*

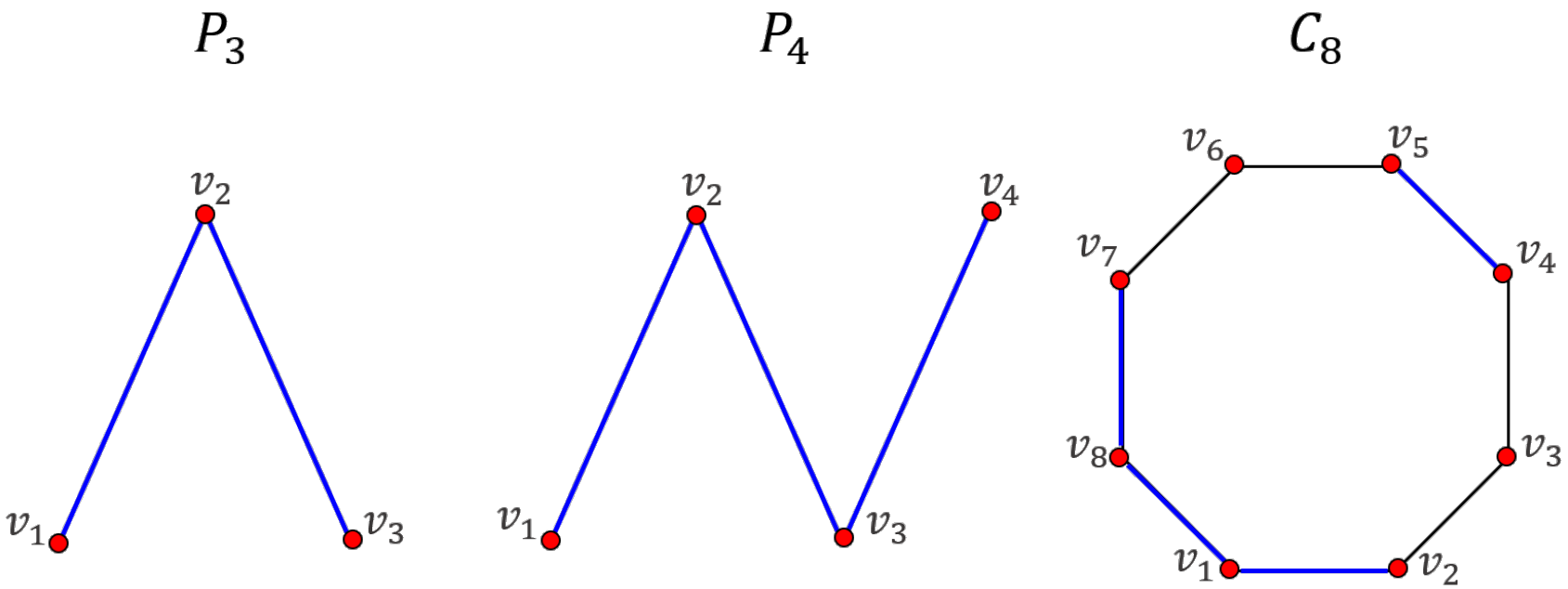
# Resultados

**Remark 3.1**

*A set $S$ is an outer-connected edge dominating set of a graph $G$ if $S$ is an edge dominating set such that $H_{E(G)\setminus S}$ does not have component isomorphic to $K_2$ or $S = E(G)$.*

To see this, consider graphs $G_1 = P_3, G_2 = P_4$, and $G_3 = C_8$ in Figure 2. Then, $\gamma_{oce}(P_3) = 2, \gamma_{oce}(P_4) = 3$, and $\gamma_{oce}(C_8) = 4$.

# Results (Cont'n)




$\gamma_{oce}(P_3) = 2$ $\gamma_{oce}(P_4) = 3$ $\gamma_{oce}(C_8) = 4$

**Figure 2:** Graphs with $\gamma_{oce}(P_3) = 2, \gamma_{oce}(P_4) = 3$, and $\gamma_{oce}(C_8) = 4$.

# Recomendaciones

The following problems are suggested for further study:
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*Gracias!*