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Elliptic curves over $\mathbb{Q}$

$$\frac{\{\text{elliptic curves over } \mathbb{Q}\}}{\cong} \xrightarrow{j} \mathbb{Q}$$

 **(Morell)** Let E be an elliptic curve over $\mathbb{Q}$. Then $E(\mathbb{Q})$ is a finitely generated Abelian group. Thus

$$E(\mathbb{Q}) \cong_{\text{Grp}} \mathbb{Z}^r \oplus E(\mathbb{Q})_{\text{tors}}$$

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- [stem](#)
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And it has 2 siblings.

- [stem](#)
 - [Objects stemming from spaces over \$\mathbb{Q}\$](#)
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