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## Problem (1-2)

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## Problem 1

1.0/1.0 point (graded)

What is your favorite elliptic curve with an integral point?

Write it on the Discussion forum.

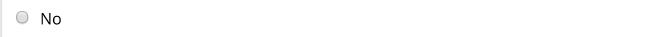
(Sample Answer: "My favorite elliptic curve is  $oldsymbol{Y^2 = X^3 - 2}$ .

The point (3,5) is an integer point on it.")

Go to the Discussion forum.

Did you post your favorite elliptic curve with an integral point on the Discussion forum?





Submit You have used 1 of 1 attempt

## Problem 2

1.0/1.0 point (graded)

Choose the incorrect statement.

- For any elliptic curve, the number of integral points is finite. The number of rational points can be finite or infinite depending on the curve.
- Mordell proved that the rational points on any elliptic curve are generated by finitely many rational points.
- The rank of an elliptic curve is zero if and only if there are only finitely many rational points.
- By using computers, it is very easy to calculate the rank of an elliptic curve. An efficient algorithm to calculate the rank of any given elliptic curve is known today.



Submit

You have used 1 of 2 attempts

Answers are displayed within the problem

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