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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 $Y^2 = X^3 - 2$.

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?

☒ Yes ✓

☐ No

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. ✓

You have used 1 of 2 attempts

i Answers are displayed within the problem

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 English ▼

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