Course is completed. The course result can no longer be changed.

Primality Testing

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Quiz

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Now, it's time for a short quiz to recap what you've learned. The quiz is **graded**, so you can take it only once. Each question will be followed by feedback explaining why your answer is right or wrong. If your answer is incorrect, you will see a suggestion of what you might need to refresh your memory.

Good luck!

*Read the question below and select **all** the answers that are correct. Then, click "Submit."*

Which THREE of the following numbers are prime?

- [ ] -1
- [ ] 1
- [x] 17
- [x] 23
- [x] 71
- [ ] 87

Correct: 17, 23, and 71 are prime numbers.

Submit You have used 1 of 1 attempt

Read the question below and enter an answer. Then, click "Submit."

Let n be a prime,$1 \leq a < n$.
What is the result of
$a^{n-1} \bmod n$?

1

1

Correct: Good job!

Submit You have used 1 of 1 attempt

Read the question below and select the correct answer. Then, click "Submit."

Which of the following statements is a prime number theorem?

- (•) The probability that a given, randomly chosen number n is prime is inversely proportional to the logarithm of n.
- ( ) The probability that a given, randomly chosen number n is prime is inversely proportional to the square root of n.
- ( ) The probability that a given, randomly chosen number n is prime is equal to $1 / \pi$ if n tends to infinity.
- ( ) The probability that a given, randomly chosen number n is prime equals 0 if n tends to infinity.

The probability that a given, randomly chosen number n is prime equals 0 if n tends to infinity.

Correct: Great job!

Submit You have used 1 of 1 attempt

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