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## Quiz >

## Review answers

Start date:	4 minutes ago
Complete date:	A moment ago
Question 1:	Which of the following concerning the Monte \(arlo method is true?
	<ul> <li>□ Pricing American options using FDM is easier than with MC.</li> <li>☑ The FDM schemes used to discretise SDEs can give biased results.</li> <li>□ It is not possible to price barrier options using the MC method.</li> <li>☑ The Monte Carlo (MC) is less efficient than FDM.</li> <li>☑ Computing option sensitivities with MC is feasible (but not efficient).</li> </ul>
Question 2:	Which of the following concerning FDM is true?
	<ul> <li>☐ There are no constraints on the step sizes in space and time with explicit FDM.</li> <li>☑ They replace partial derivatives by divided difference approximations.</li> <li>☐ Explicit FDM require the solution of a matrix system at each time level.</li> <li>☑ Divided differences can have first-order or second-order accuracy.</li> <li>☑ There are no constraints on the step sizes in space and time with implicit FDM.</li> </ul>
Question 3:	Which of the following statements concerning the Black Scholes formula is true?
	<ul> <li>☑ Put-call parity relates put and call option prices.</li> <li>☐ There is a closed solution for options with early exercise.</li> <li>☐ The Black Scholes formula is valid for non-constant volatility.</li> <li>☑ There are exact solutions for option sensitivities for the Black Scholes model.</li> <li>☑ There is a closed solution for plain options.</li> <li>☑ The Black Scholes use the Gaussian cumulative distribution function (cdf).</li> <li>☐ The Black Scholes use the Gaussian probability density (pdf) function.</li> </ul>

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Perpetual American options have a closed solution.
n 4: Which of the following concerning the Explicit Euler method is true?
☑ The Crank Nicolson method is unconditionally stable and second- order accurate.
☑ EE is first order accurate in the time direction.
☐ The Explicit Euler (EE) method is unconditionally stable.
☑ Oscillations occur with EE if the mesh time step is not of the same
order as the square of the mesh size in space.
which of the following concerning the Binomial Method \(arlo method is true?
<ul> <li>☑ The Binomial Method (BM) can be used to price American options.</li> <li>☐ BM cannot be used for two-factor models.</li> <li>☑ BM is less flexible than FDM.</li> </ul>
☑ BM can give 'zigzag' and oscillatory solutions.
ore: 5 (100.00%)
Fail: Passed

## Quiz >

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