

Question #1 of 9

Question ID: 1256927

When $\xi = 0$, the generalized extreme value distribution (GEV) becomes which of the following distributions?

- A) Frechet distribution.
 - B) Gumbel distribution.
 - C) Gaussian distribution.
 - D) Weibull distribution.
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Question #2 of 9

Question ID: 1427677

Which of the following is true comparing VaR and extreme value theory (EVT)?

- A) Only EVT considers losses beyond a specified threshold.
 - B) EVT focuses exclusively on the upper half of the return distribution.
 - C) The generalized Pareto distribution is fully parameterized by the mean and variance.
 - D) VaR and EVT assume normality of the return distribution.
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Question #3 of 9

Question ID: 1256933

Which of the following statements regarding generalized extreme value (GEV) and peaks-over-threshold (POT) is correct?

- A) POT approach may introduce additional uncertainty.
- B) POT requires the estimation of one more parameter than GEV.
- C) Both POT and GEV focus on the distribution of extreme values above a specified threshold.
- D) Only one of the approaches has a tail parameter denoted ξ .

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Question ID: 1256935

Which of the following most accurately describes the parameters of a generalized Pareto distribution (GPD)?

- A)** β The scale parameter: $0 > \beta$. The shape (tail) index: ξ , can be any real number.
 - B)** The scale parameter: $0 < \beta$. The shape (tail) index: ξ , can be any real number.
 - C)** The scale parameter: β , which can be any real number. The shape (tail) index: $\xi > 0$.
 - D)** The scale parameter: β , can be any real number. The shape (tail) index: ξ , can be any real number.
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Question ID: 1561418

Extreme value theory (EVT) helps quantify the magnitude of:

- A)** the level of risk obtained from scenario analysis.
 - B)** market risk and operational risk.
 - C)** an X year return in the loss in excess VaR.
 - D)** market risk and credit risk.
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Question #6 of 9

Question ID: 1256929

Which of the following statements about extreme value theory (EVT) is false?

- A)** EVT can be used to model everyday occurrences.
 - B)** EVT focuses on data that is generally considered outliers.
 - C)** Cluster analysis is appropriate for financial data with time dependency.
 - D)** POT models determine the cut-off between typical and extreme values.
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Question #7 of 9

Question ID: 1427674

Extreme value theory (EVT) can assist with value at risk (VaR) calculations by providing better probability estimates of observing extreme losses than that indicated by a standard normal distribution because:

- A)** extreme losses appear to occur more frequently than indicated by a normal distribution.
 - B)** extreme losses appear to occur less frequently than indicated by a normal distribution.
 - C)** the observed empirical distribution of most asset returns tends to be platykurtic.
 - D)** EVT is the most efficient method for estimating extreme losses.
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Question #8 of 9

Question ID: 1427678

Extreme value theory can assist with VaR calculations by providing better probability estimates of extreme losses than those indicated by a standard normal distribution. Using the generalized Pareto distribution (GPD), the parameter that indicates the fatness of tails is the:

- A)** shape parameter, ξ .
 - B)** slope coefficient, b .
 - C)** threshold level, μ .
 - D)** scaling parameter, b .
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Question ID: 1824344

The Generalized Extreme Value (GEV) distribution is useful for:

- I. Estimating value at risk (VaR).
- II. Stress testing.
- III. Estimating correlation in extreme market conditions.
- IV. Backtesting VaR models.

- A) II only.**
- B) I, II, and III only.**
- C) I and III only.**
- D) I only.**