

6 Continuous variables and testing — Part 2 — Answers

Answers

Work through these after trying the questions yourself.

6.6 1.

6.7 The probability $P(a < X < b)$.

6.8 The claim being tested — usually “no change”.

6.9 When the test statistic falls in the rejection region (a shaded tail).

6.10 ± 1.96 .

6.11 The total area must be 1: $\int_0^2 kx \, dx = k \left[\frac{x^2}{2} \right]_0^2 = k(2) = 1$, so $k = \frac{1}{2}$.