ASYNCHRONE TESTS

XCTESTEXPECTATION

```
let asyncExpectation = expectation(description: "async")
var result: Bool? = nil
sut.asyncTask { success in
  result = success
  asyncExpectation.fulfill()
wait(for: [asyncExpectation], timeout: 1)
XCTAssertTrue(result ?? false)
```

XCTKVOEXPECTATION

```
let kvoExpectation =
  keyValueObservingExpectation(
    for: sut,
    keyPath: "name",
    expectedValue: "Foo Bar")
sut.firstname = "Foo"
sut.lastname = "Bar"
wait(for: [kvoExpectation], timeout: 1)
```

XCTKVOEXPECTATION WITH HANDLER

```
let kvoExpectation =
  keyValueObservingExpectation(
    for: sut as Any,
    keyPath: "name") { observed, changes -> Bool in
      guard let new = changes["new"] as? String else {
          return false
      return new == "Foo Bar"
sut.firstname = "Foo"
sut.lastname = "Bar"
wait(for: [kvoExpectation], timeout: 1)
```

XCTNSNOTIFICATIONEXPECTATION

```
expectation(
  forNotification: notificationName,
  object: nil,
  handler: nil)
sut.score = 5
waitForExpectations(timeout: 1, handler: nil)
```

XCTNSPREDICATEEXPECTATION

```
let predicate = NSPredicate(format: "name = %@", "Foo Bar")
let predicateExp = expectation(
for: predicate, evaluatedWith: sut) { () -> Bool in
  return true
sut.firstname = "Foo"
sut.lastname = "Bar"
wait(for: [predicateExp], timeout: 1)
```