```csharp
[Test]
[Category("Example")]
public void DependentVariable()
{
    var x = new Variable<double> { InterpolationType = InterpolationType.Linear };
    var y = new Variable<double> { Arguments = { x } };

    // set values using value index operator
    y[1.0] = 100.0;
    y[2.0] = 200.0;
    y[3.0] = 100.0;

    // set values using method (replaces existing values of y)
    y.SetValues(new [] { 100.0, 200.0, 300.0});

    // access values using value index operator
    y[1.0]
        .Should("exact value y(x = 1.0) = 100.0").Be.EqualTo(100.0);

    y[1.5]
        .Should("interpolated value y(x = 1.5) = 150.0").Be.EqualTo(150.0);

    // access values of y as an array
    x.Values
        .Should("check x values").Have.SameSequenceAs(new[] { 1.0, 2.0, 3.0 });

    y.Values
        .Should("check y values").Have.SameSequenceAs(new[] { 100.0, 200.0, 300.0 });
}
```

$$y = y(x)$$