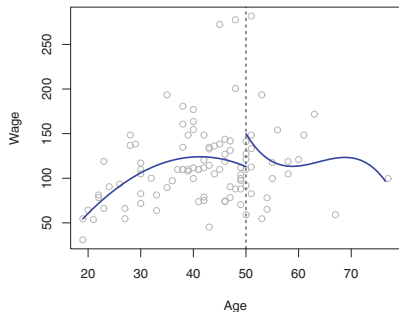
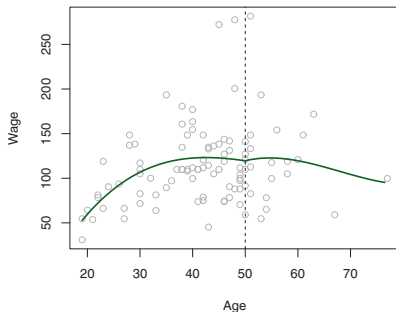
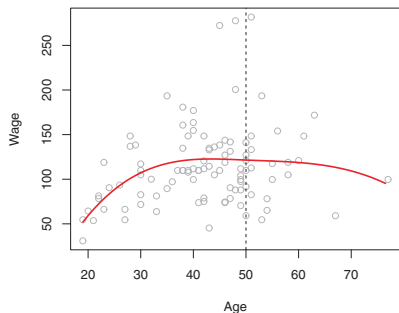
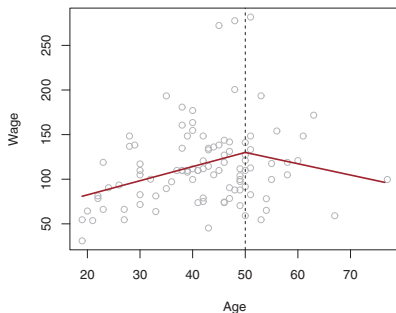


**Piecewise Cubic****Continuous Piecewise Cubic****Cubic Spline****Linear Spline**

**FIGURE 7.3.** Various piecewise polynomials are fit to a subset of the **Wage** data, with a knot at **age=50**. Top Left: The cubic polynomials are unconstrained. Top Right: The cubic polynomials are constrained to be continuous at **age=50**. Bottom Left: The cubic polynomials are constrained to be continuous, and to have continuous first and second derivatives. Bottom Right: A linear spline is shown, which is constrained to be continuous.