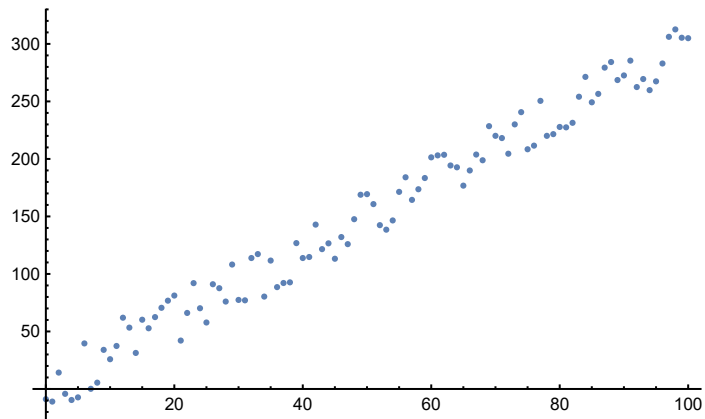In[26]:= `points = Table[{i, 3 * i + 2 + RandomReal[] * 50 - 25}, {i, 0, 100}];`

In[27]:= `ListPlot[points]`

Out[27]=

In[28]:= `X = Table[{1, p⟦1⟧}, {p, points}];`
`Y = Table[{p⟦2⟧}, {p, points}];`

In[30]:= `W = (Inverse[Transpose[X].X].Transpose[X]).Y`

Out[30]=

`{{-0.656268}, {3.01798}}`

In[31]:= `Show[`
` Plot[W⟦2⟧ * x + W⟦1⟧, {x, 0, 100}, PlotStyle → Red],`
` ListPlot[points]`
`]`

Out[31]=