

```

83 plt.grid(True, alpha=0.3)
84 plt.show()
85
86 # Coefficient comparison
87 print(f"\nCoefficients:")
88 print(f"Linear : {lr.coef_[0]:.4f}")
89 print(f"Ridge : {ridge.coef_[0]:.4f}")
90 print(f"Lasso : {lasso.coef_[0]:.4f}")

```

Output:

```

1  =====
2  REGRESSION COMPARISON ON IRIS (petal_length → petal_width)
3  =====
4  Linear                → R2 = 0.92826
5  Ridge (L2)            → R2 = 0.92811
6  Lasso (L1)           → R2 = 0.92779
7  Polynomial (deg=2)    → R2 = 0.92834
8  Polynomial (deg=3)    → R2 = 0.93758
9  =====
10
11 Coefficients:
12 Linear : 0.4132
13 Ridge : 0.4121
14 Lasso : 0.4100

```

Plots:

