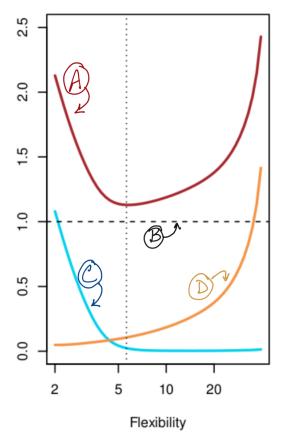
CMSE381 - Quiz 1

1. For each item in the list, write the letter of the line from the figure at left.



- MSE: _____A
- Bias: ______
- Variance of $\hat{f}(x_0)$:
- Variance of ϵ : ______

2. In simple linear regression, the *least squares coefficient estimates* are the choices for coefficients in our model that minimize *something*. What is it?

RSS

3. Computing the testing MSE of the estimated estimator $\hat{f}(X_1, X_2, X_3) = X_1 + X_2$ based on the table below.

	Training data		Testing dat	a
X1	1	0	1	2
X2	2	1	-1	1
Х3	1	3	0	1
Υ	1	2	1	1
		4:	0	3
		f-4	: 4	2

testing
$$MSE = \frac{1}{2}(H + 1) = \frac{1}{2}$$