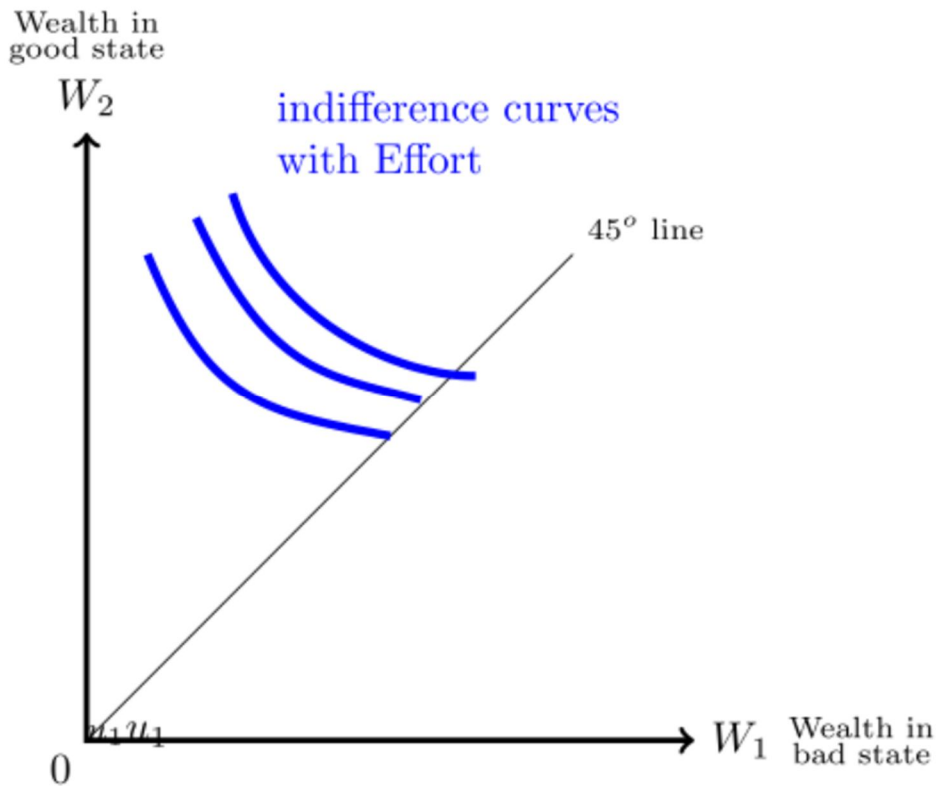
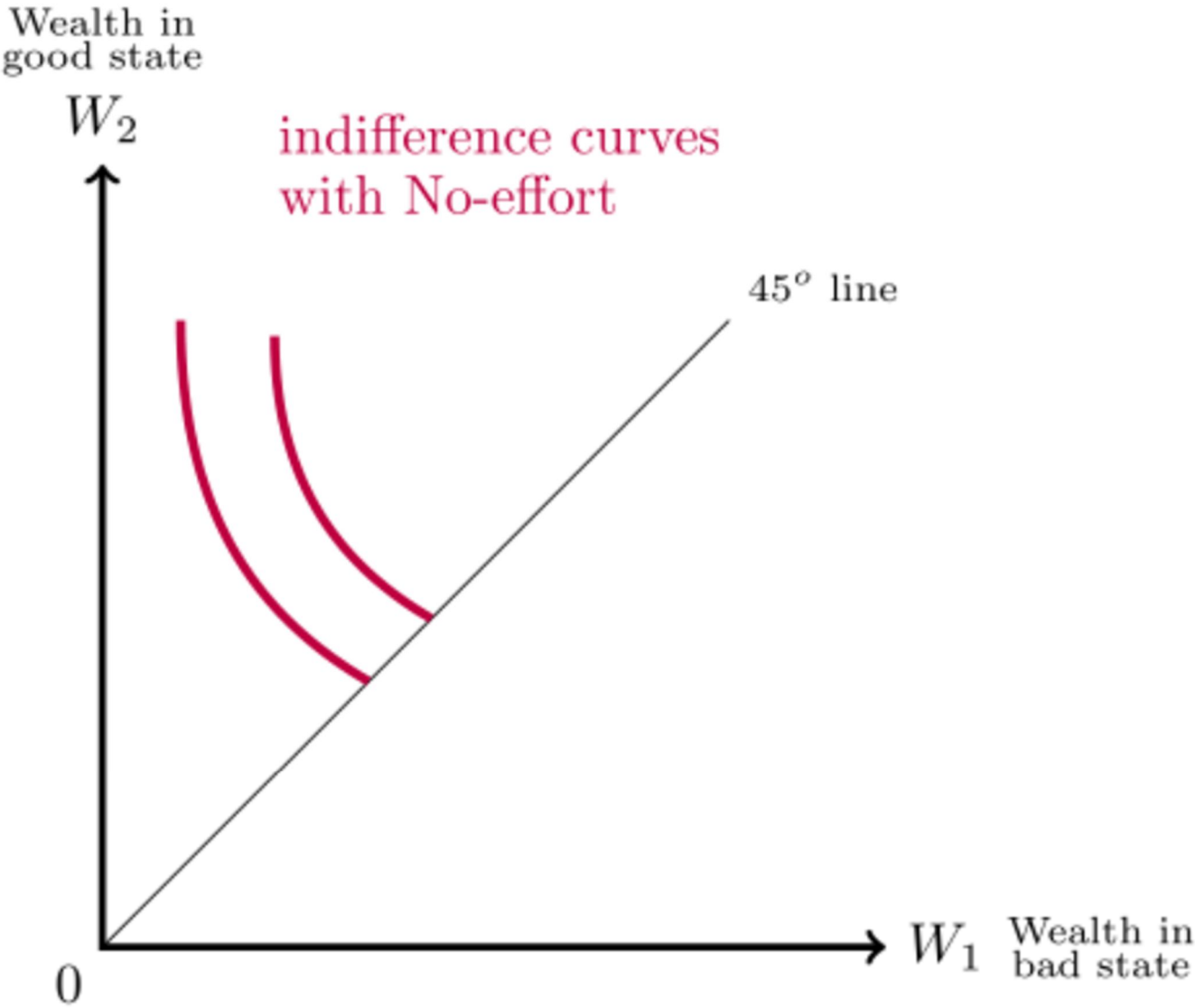


Through any point in the wealth space go **two** indifference curves: a less steep one corresponding to effort and a steeper one corresponding to no effort.

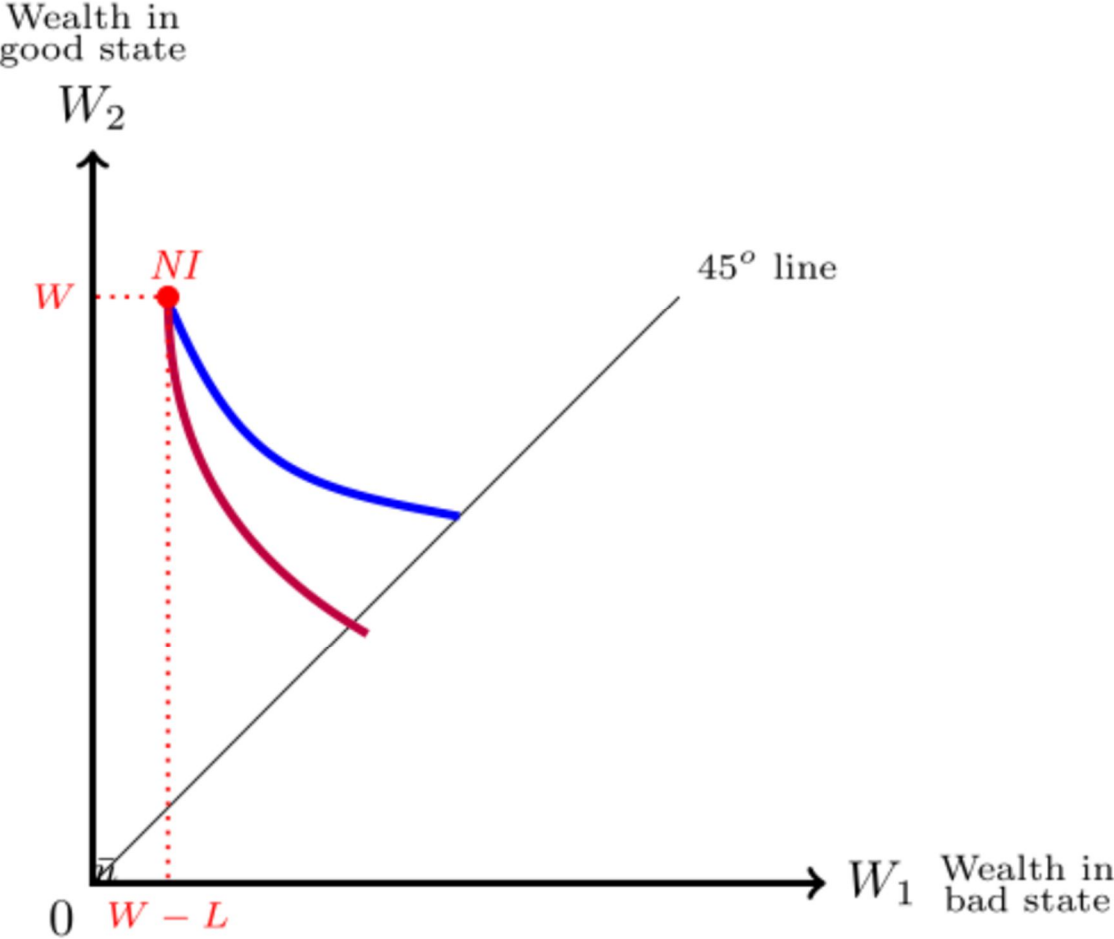
No-effort indifference curves:

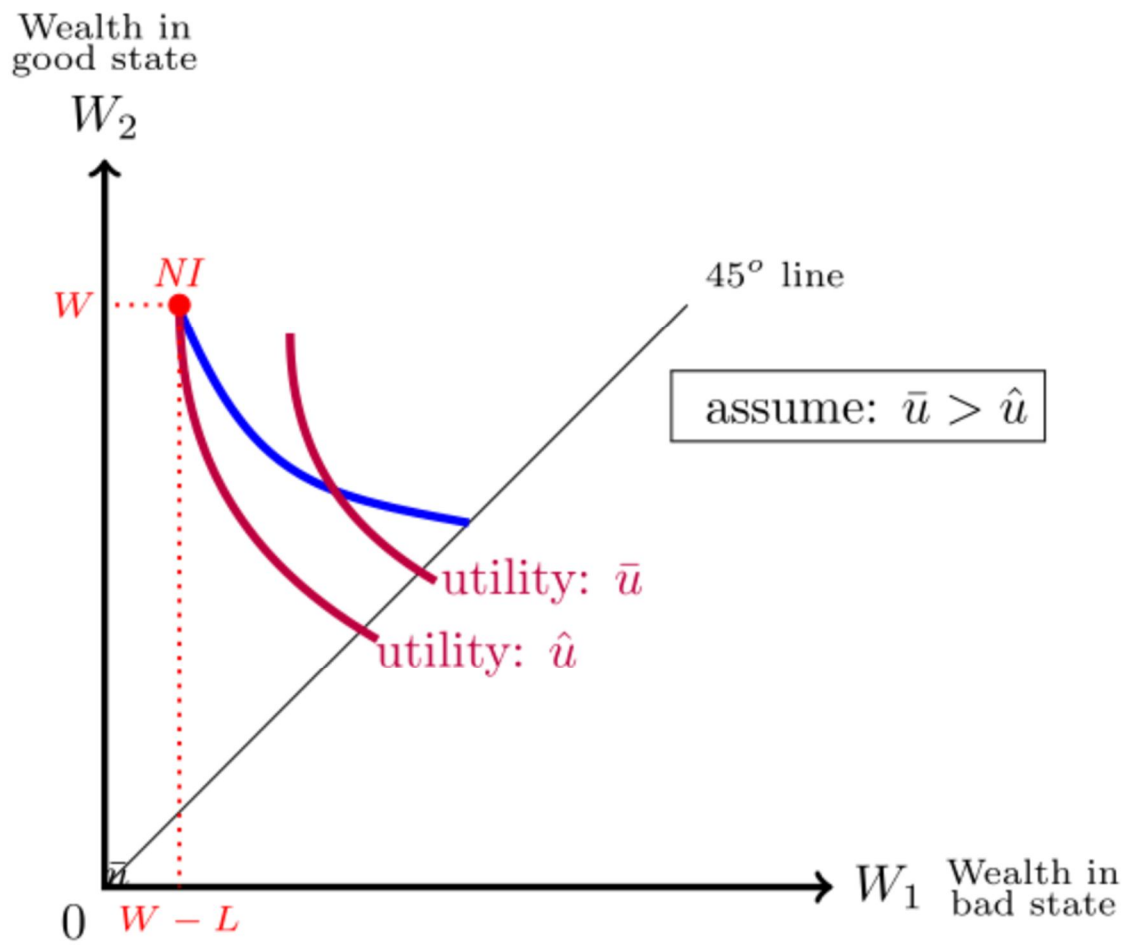


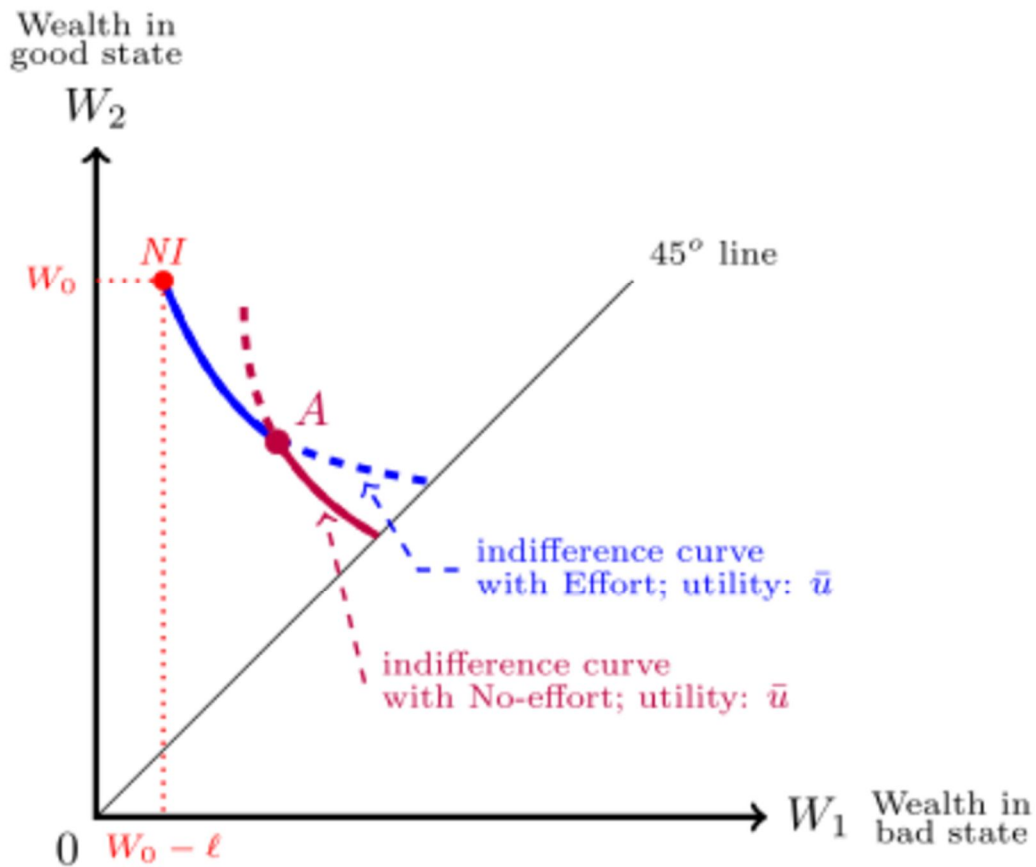
Next the no-effort indifference curves:



Indifference curves that go through the NI point:

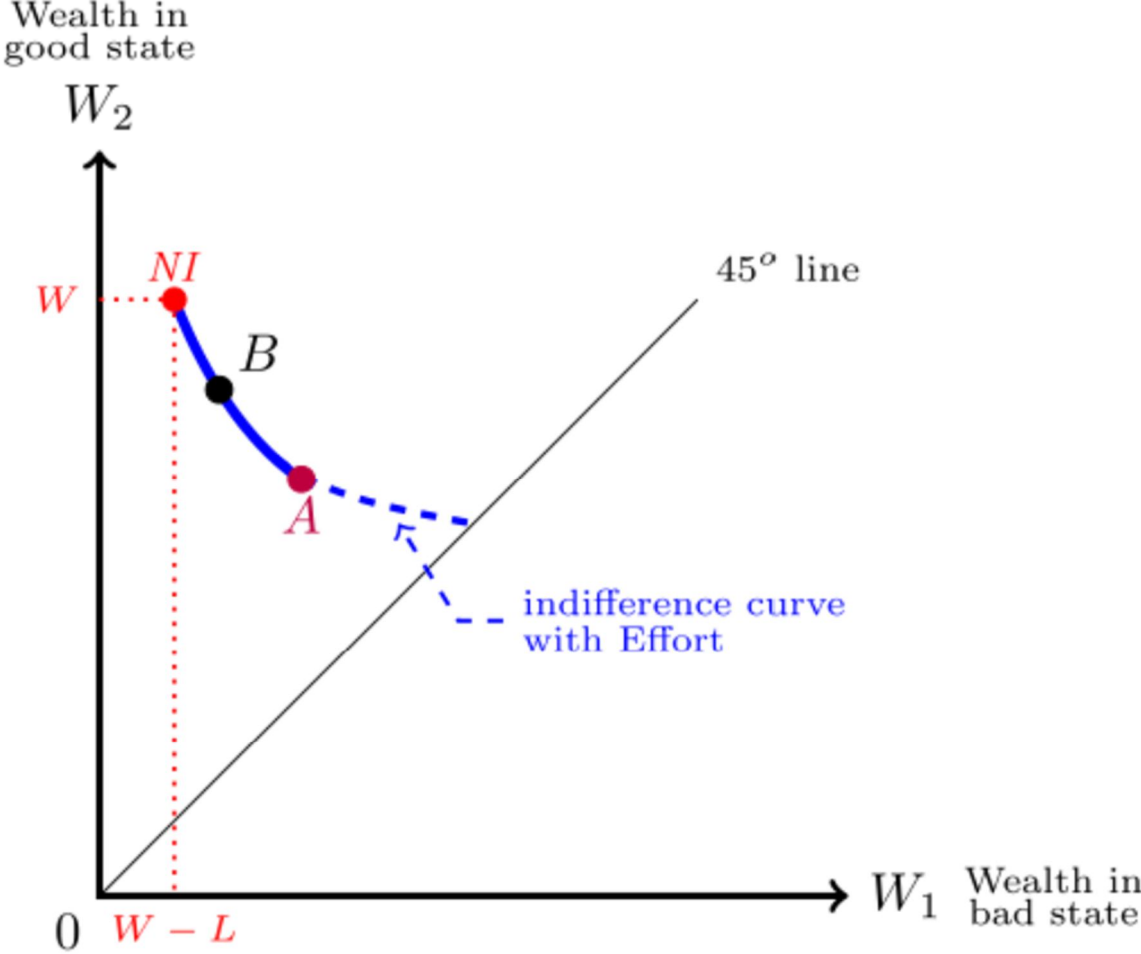




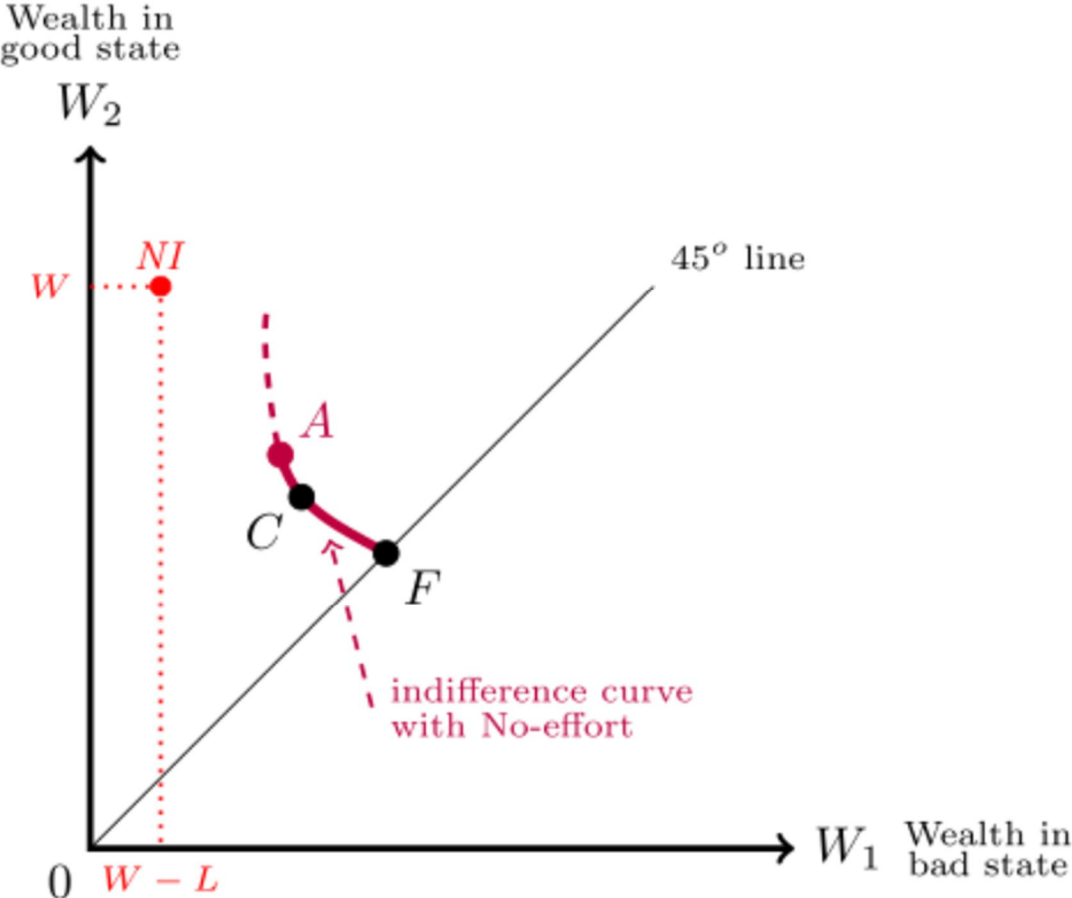


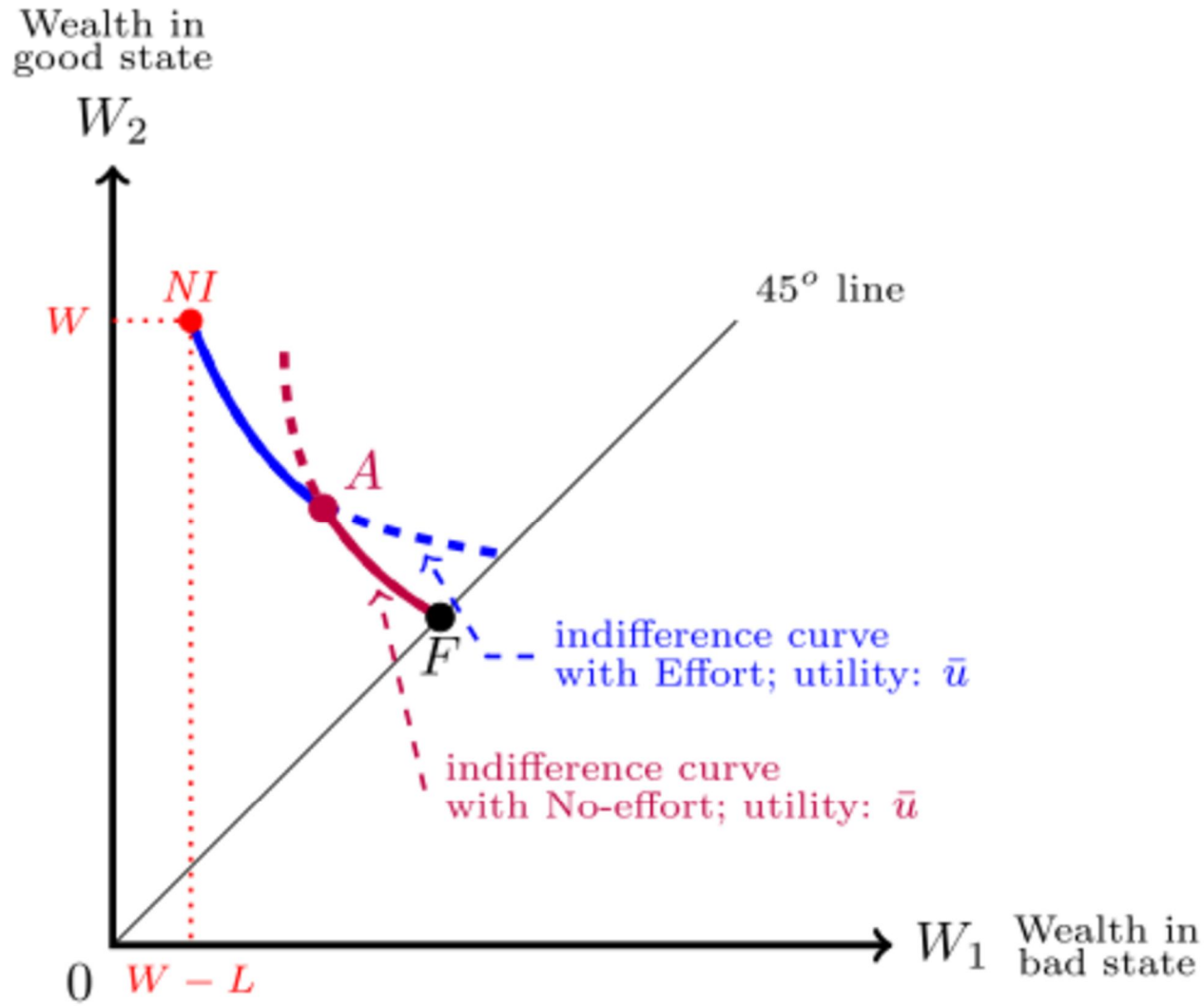
The monopolist will want the consumer to be on the **reservation utility locus**. But which contract on this locus will it offer?

It cannot be a point strictly between NI and A:



It cannot be a point strictly between A and F:





TWO EXAMPLES

Example 1.

$$W = 10,000 \quad L = 1,900 \quad p_n = \frac{4}{10} \quad p_e = \frac{1}{10} \quad U_n(m) \equiv U(m, 0) = \sqrt{m}$$
$$U_e(m) \equiv U(m, e) = \sqrt{m} - 1$$

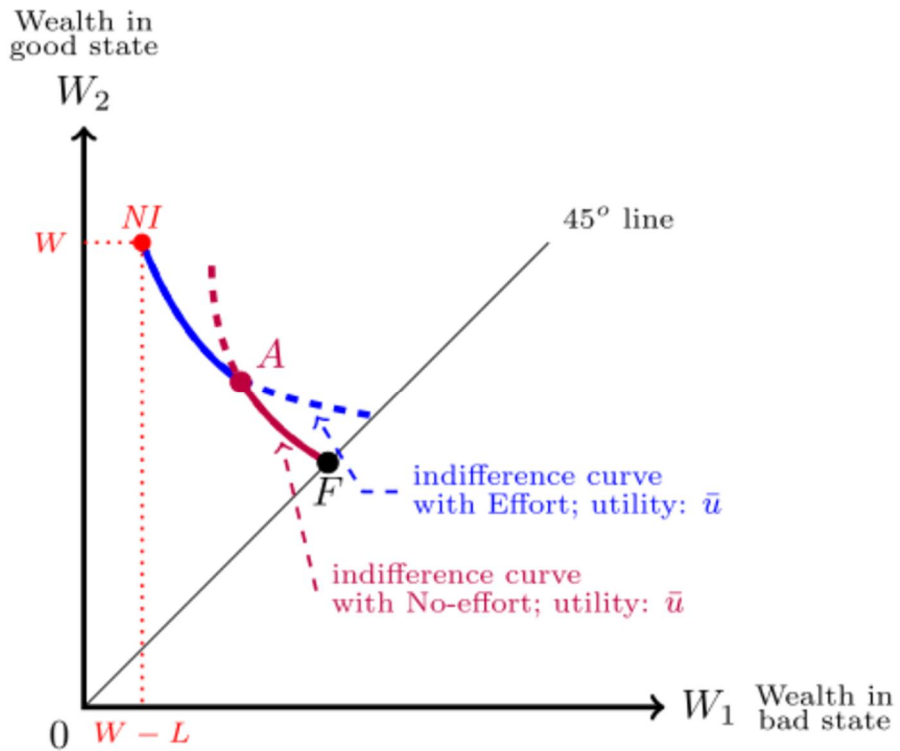
Then

$$\mathbb{E}[U_n(NI)] =$$

$$\mathbb{E}[U_e(NI)] =$$

So under no insurance the agent chooses

What contract would a monopolist offer? The choice is between A and F .



Find the premium of contract F . Given by the solution to:

Corresponding profits:

Calculate premium and deductible for contract A:

(on the no-effort indifference curve for utility 98)

(on the effort indifference curve for utility 98)

The solution is: $h_A =$ $d_A =$

Corresponding profits:

Thus the monopolist will offer

Example 2 (“effort” is a monetary expense).

$$W = 8,000 \quad L = 3,000 \quad p_n = \frac{1}{8} \quad p_e = \frac{1}{10} \quad U(m) \equiv 10 \ln(m)$$

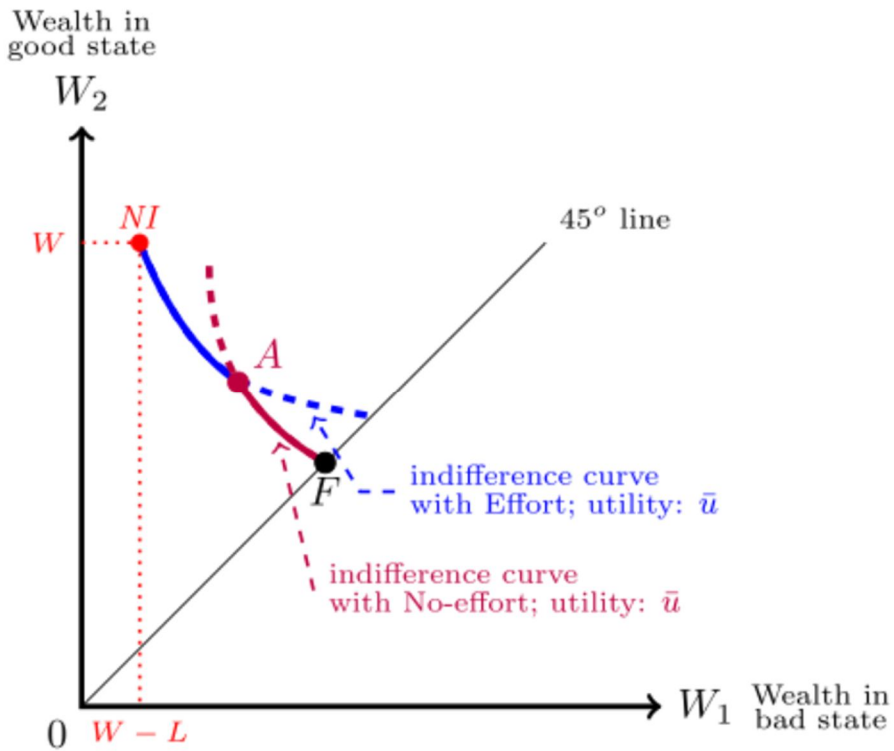
Cost of “effort”: \$50.

$$\mathbb{E}[U_n(NI)] =$$

$$\mathbb{E}[U_e(NI)] =$$

So under no insurance the agent chooses

What contract would a monopolist offer? The choice is between A and F :



Find the premium of contract F . Given by the solution to:

Corresponding profits:

Calculate premium and deductible of contract A.

Given by the solution to:

(on the no-effort indifference curve for utility 89.335)

(on the effort indifference curve for utility 89.335)

The solution is: $h_A =$

$d_A =$

Corresponding profits: