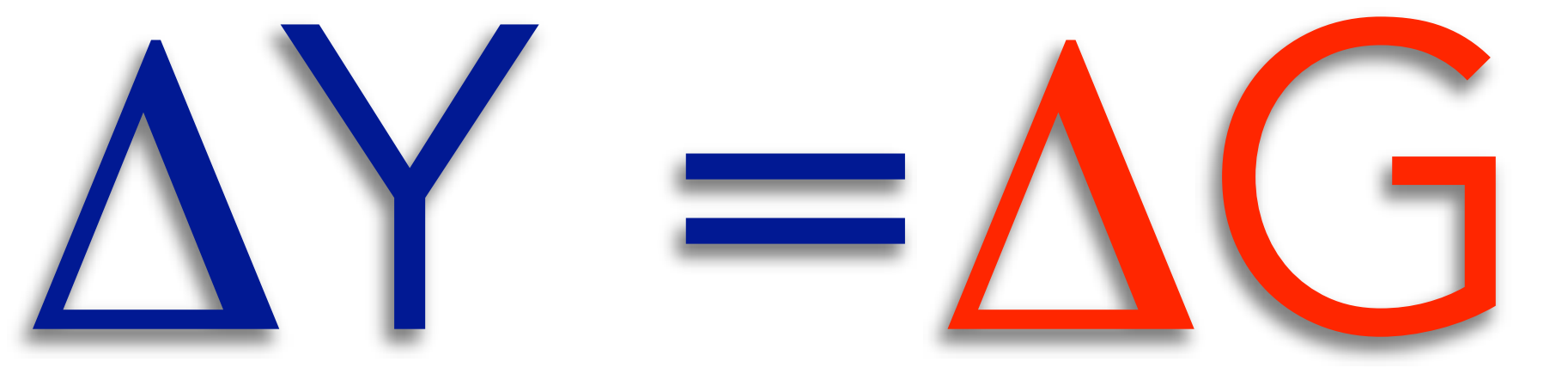

ΔY = ΔG

$\Delta C = \Delta Y$ (MPC)

We want Equilibrium GDP to increase by 1,000: $\Delta Y = 1{,}000$

Effect on Consumption:

Effect on the Budget Deficit:

$$\Delta \text{ Deficit} = \Delta G - \Delta T$$

The Spending Multiplier


1
1-MPC


1
1-0.8

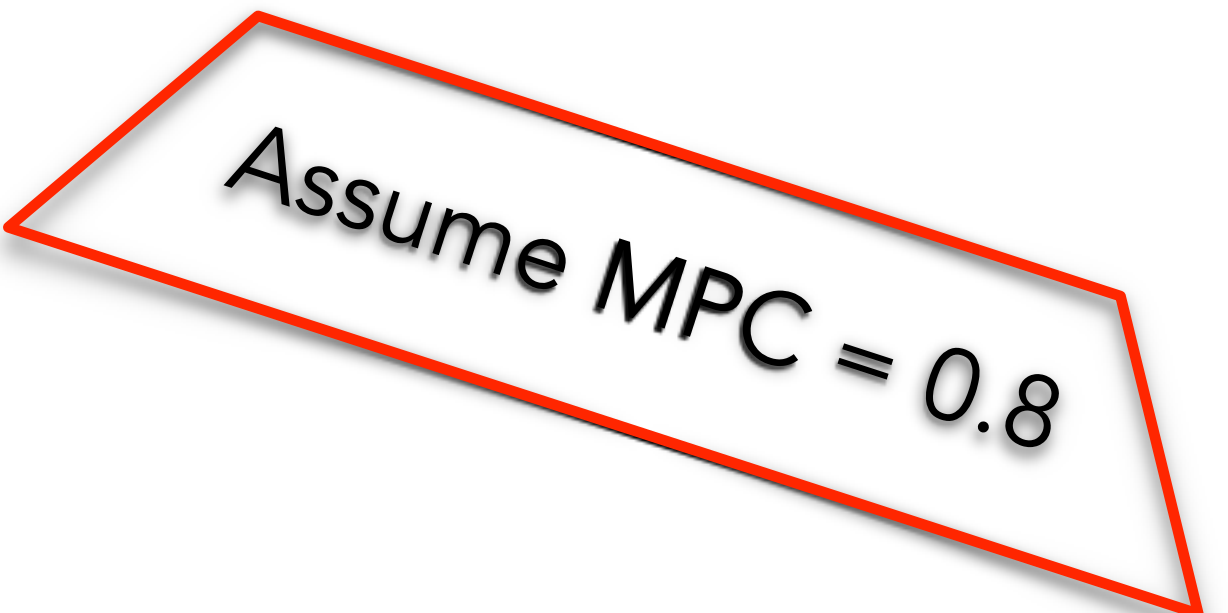

1
0.2


(5)

(Multiplier)

$$\Delta C = 1{,}000(0.8) = 800$$

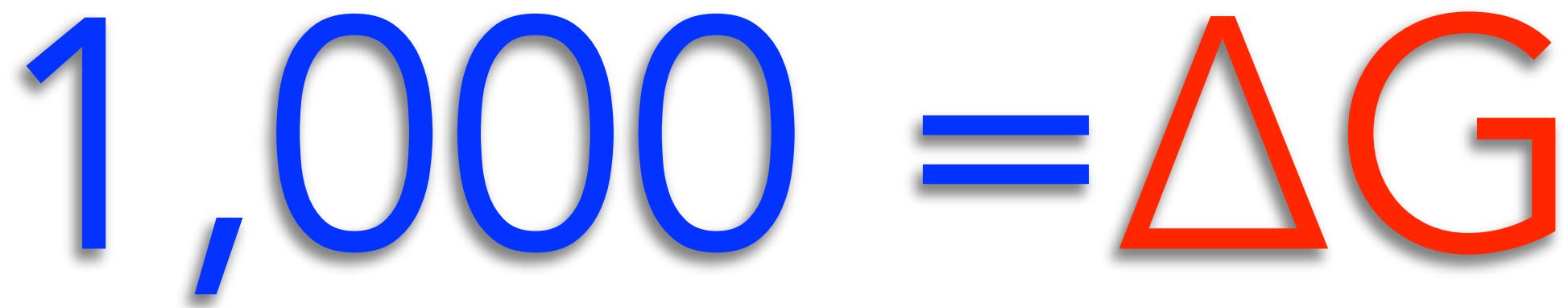
$$\Delta \text{ Deficit} = 200 - 0 = 200$$


Assume MPC = 0.8

Recessionary Gap:

7,000 - 6,000 =1,000

$$\Delta Y = 1{,}000$$


1,000 =ΔG


5

$$\Delta G = 1{,}000/5$$

$\Delta G = 200$

The Government must increase G by 200 in order to close a 1,000 Recessionary Gap

A 200 **increase** in G will **increase** the Deficit by 200

Recessionary Gap:
7,000 - 6,000 =1,000

Assume MPC = 0.8

We want Equilibrium GDP to increase by 1,000: $\Delta Y = 1{,}000$

The Spending Multiplier $\left(\frac{1}{1\text{-MPC}}\right) = (5)$

$\Delta Y = \Delta G(\text{Multiplier})$

$\Delta Y = 1{,}000$

$1{,}000 = \Delta G(5)$

$\Delta G = 1{,}000/5$

$\Delta G = 200$

The Government must increase G by 200 in order to close a 1,000 Recessionary Gap

Effect on Consumption:

$\Delta C = \Delta Y$ (MPC)

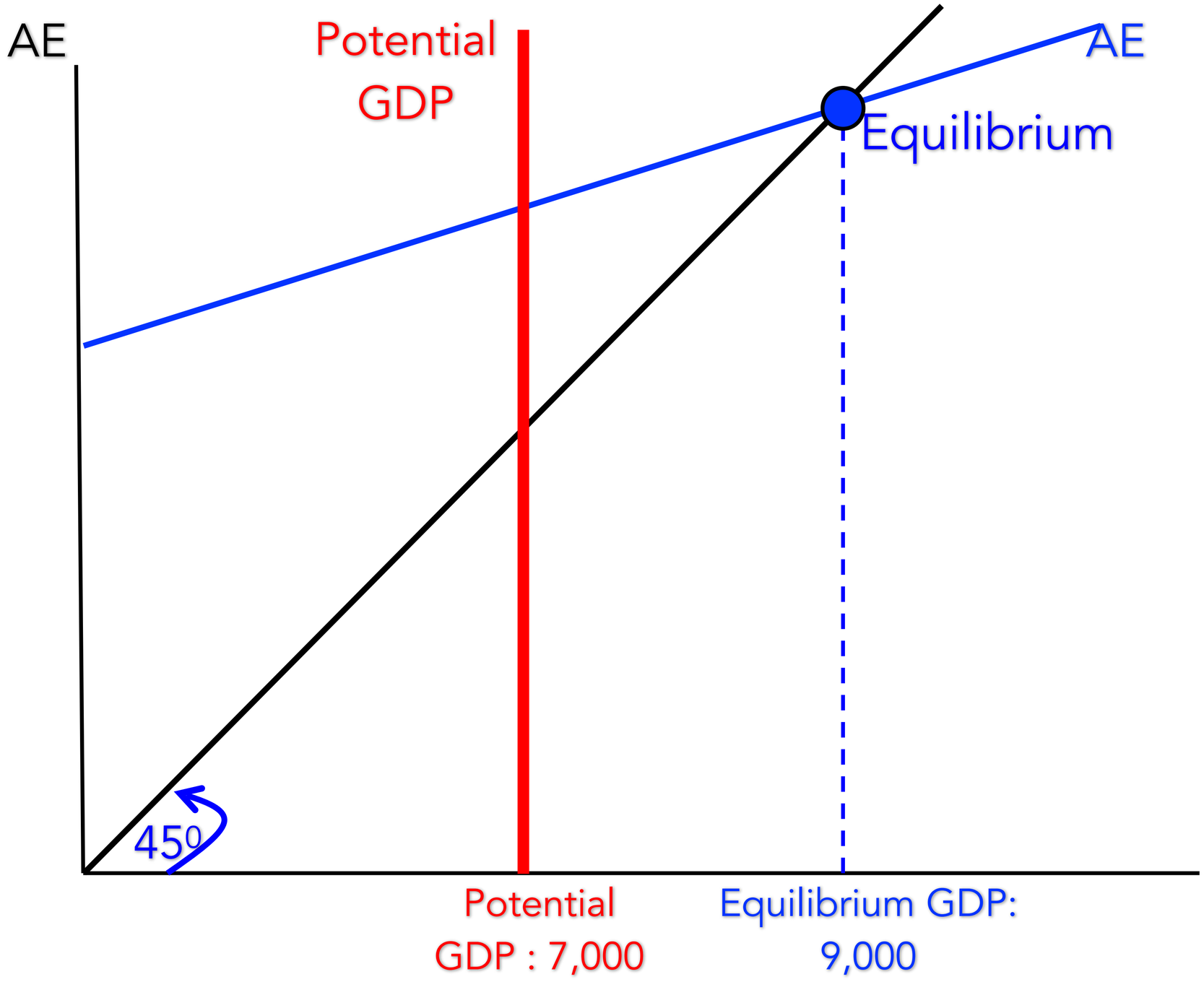
$\Delta C = 1{,}000(0.8) = 800$

Effect on the Budget Deficit:

Δ Deficit $= \Delta G - \Delta T$

Δ Deficit $= 200 - 0 = 200$

A 200 **increase** in G will **increase** the Deficit by 200


AE
Potential
GDP
AE
Equilibrium
45⁰
Potential
GDP : 7,000
Equilibrium GDP:
9,000