



MR











MC











6

2



1.5

2



10



3

4



If The firm produces more than 11 units, profit will decrease ...

—

2

—

3

—

5































1

2

1

3

1

4

—

2



+

3

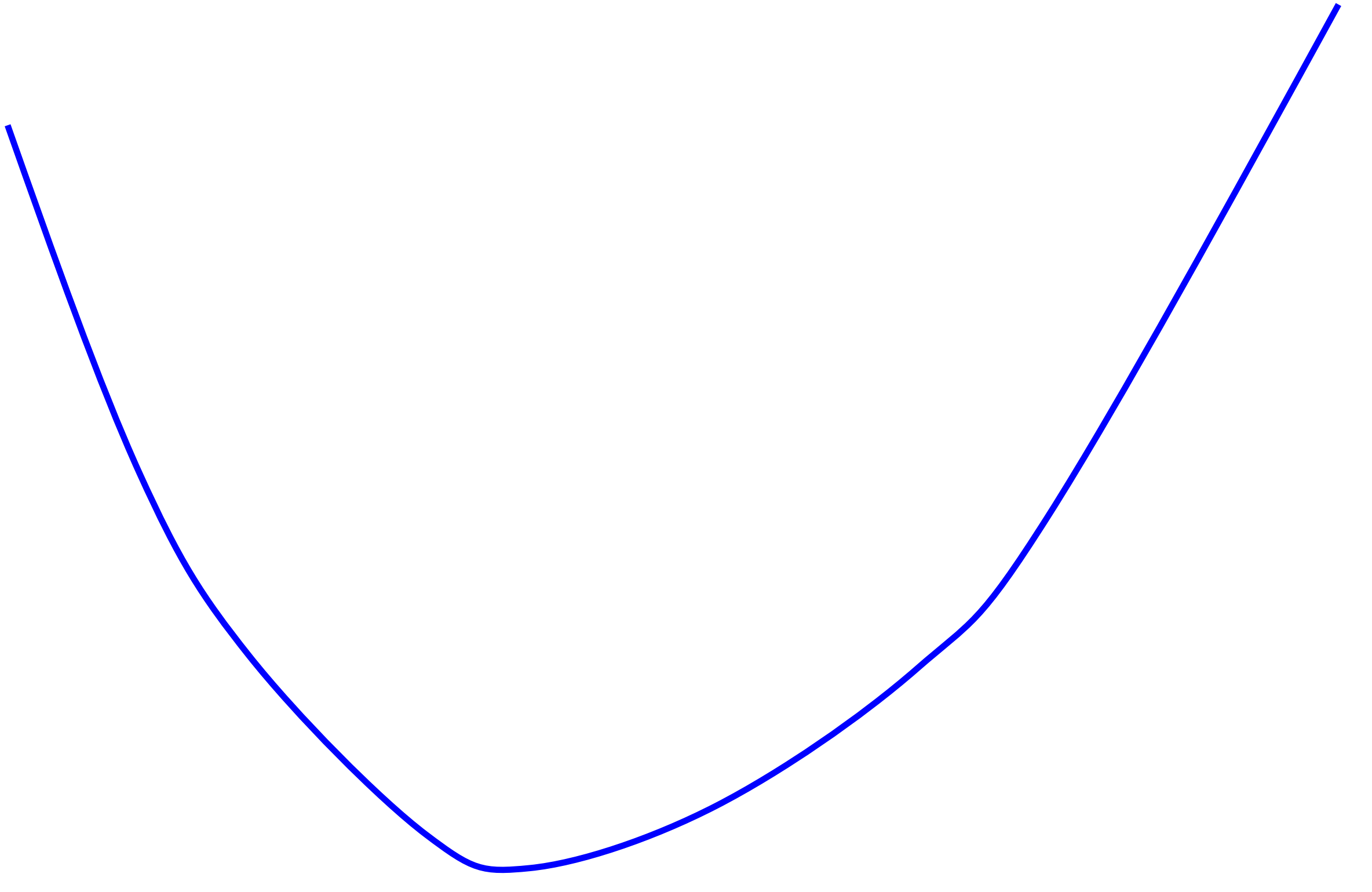


+3.5

+

3





Total Loss = -\$7

$$\text{Total Profit} = -4 - 2 - 1 + 0 + 2 + 3 + 4 + 3.5 + 3 + 2 + 0 = 10.5$$

MC = MR

5

5





$$\text{Profit/Loss per unit} = MR - MC$$

MC = Cost of
last unit
produced

$P_e = MR =$ Revenue per
unit sold

3

+

2

+

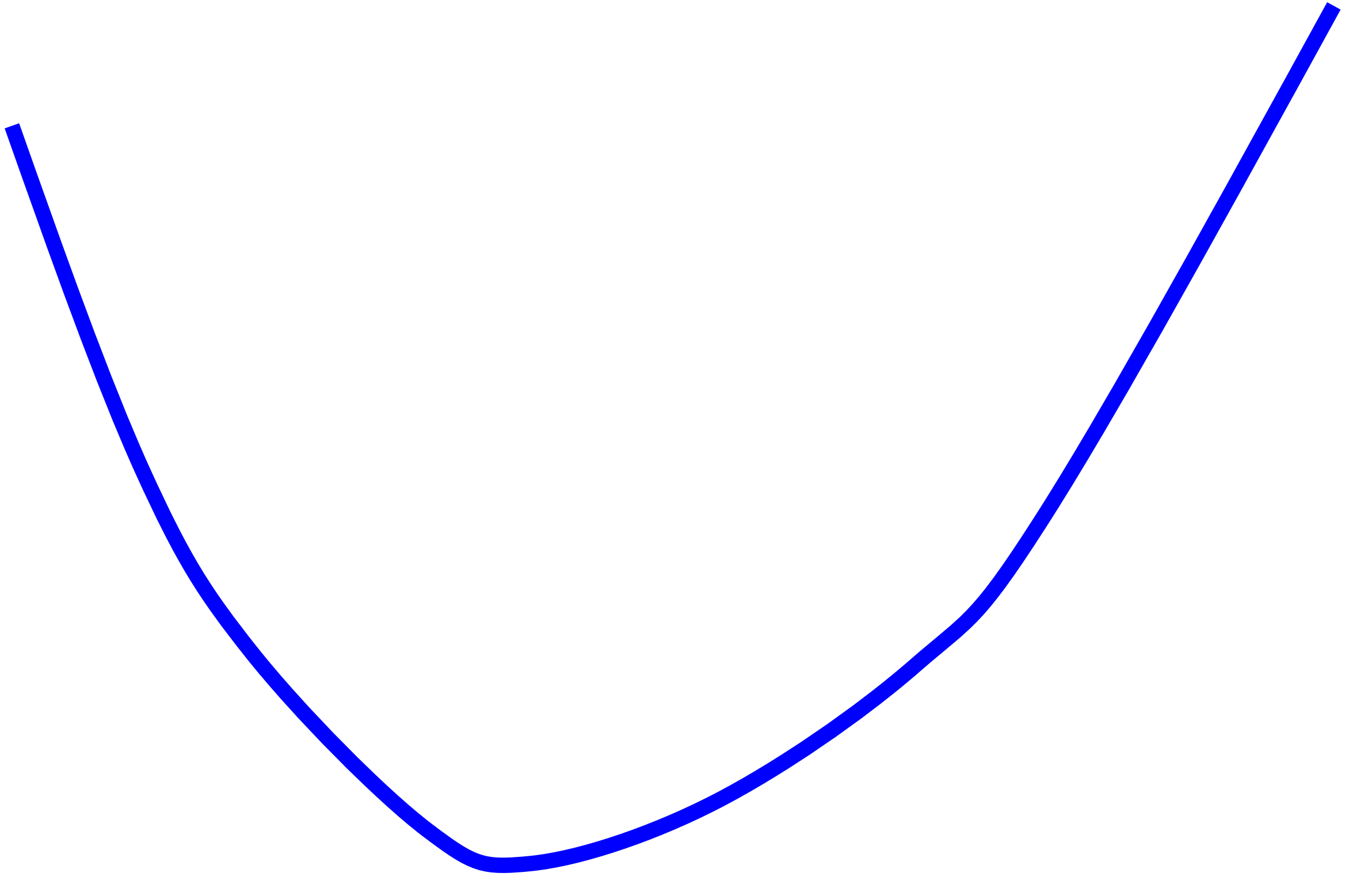
2



NCofunit1=9

Pe=5


LOSS = -4








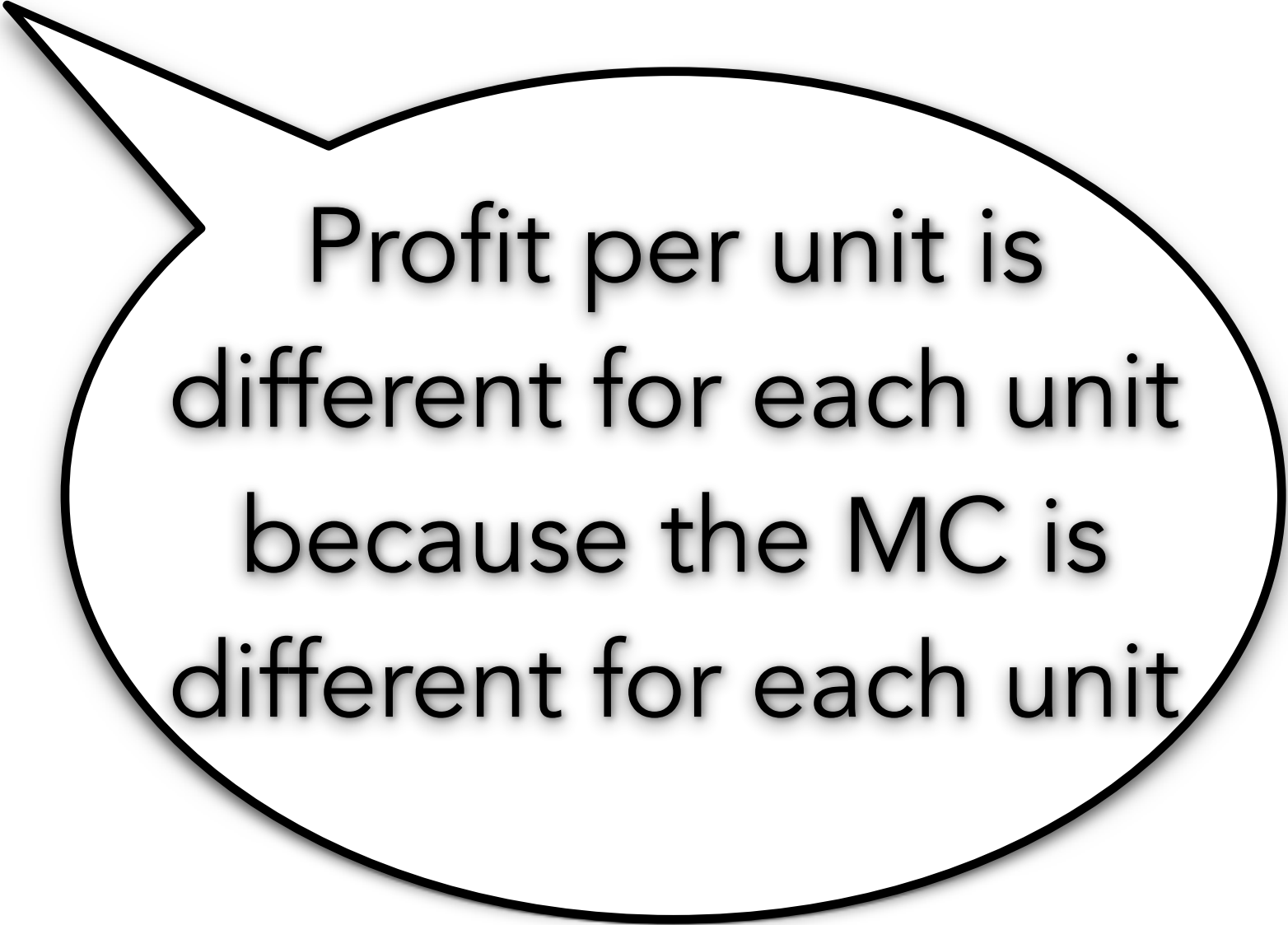




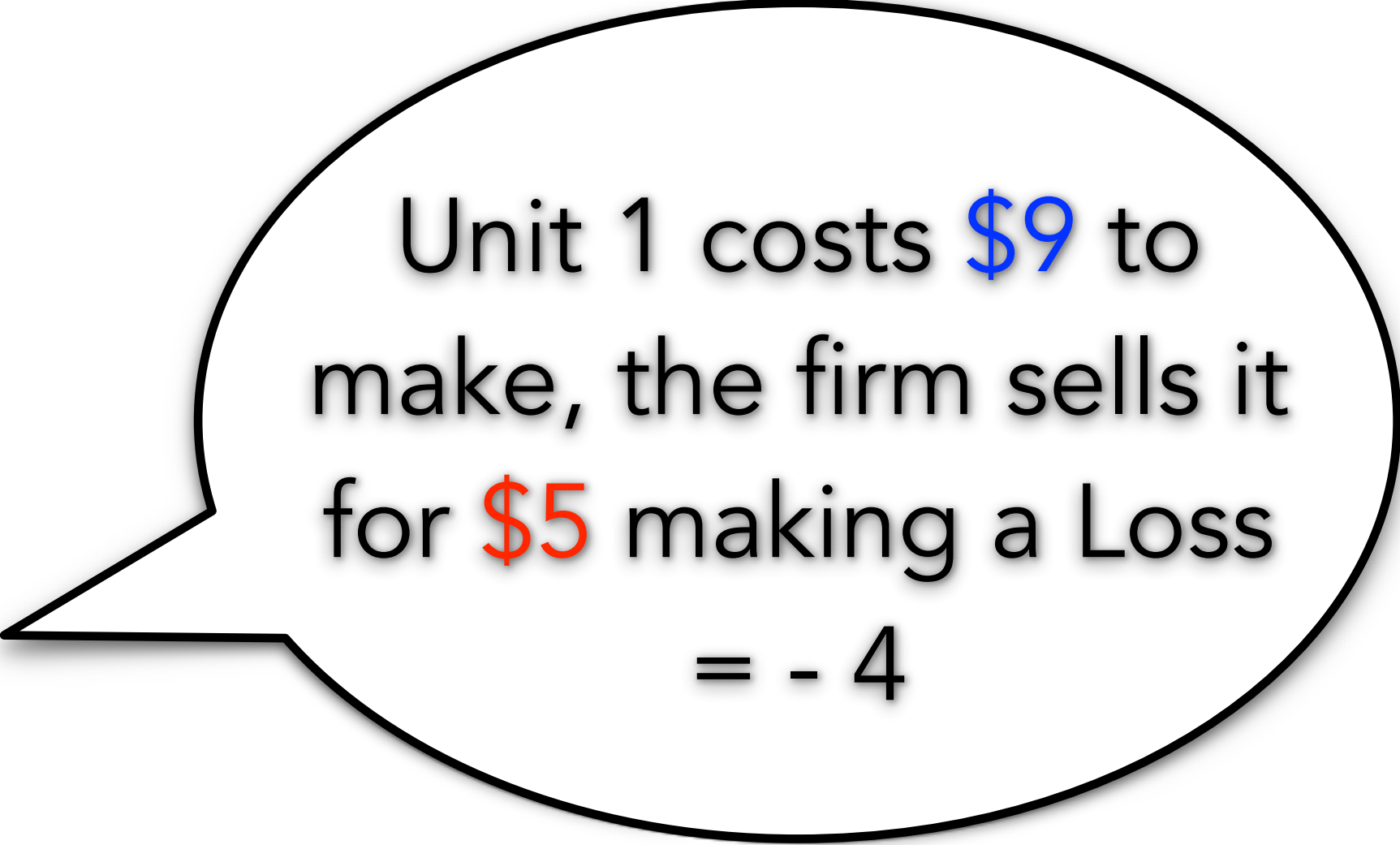
MC: cost of
producing the
unit



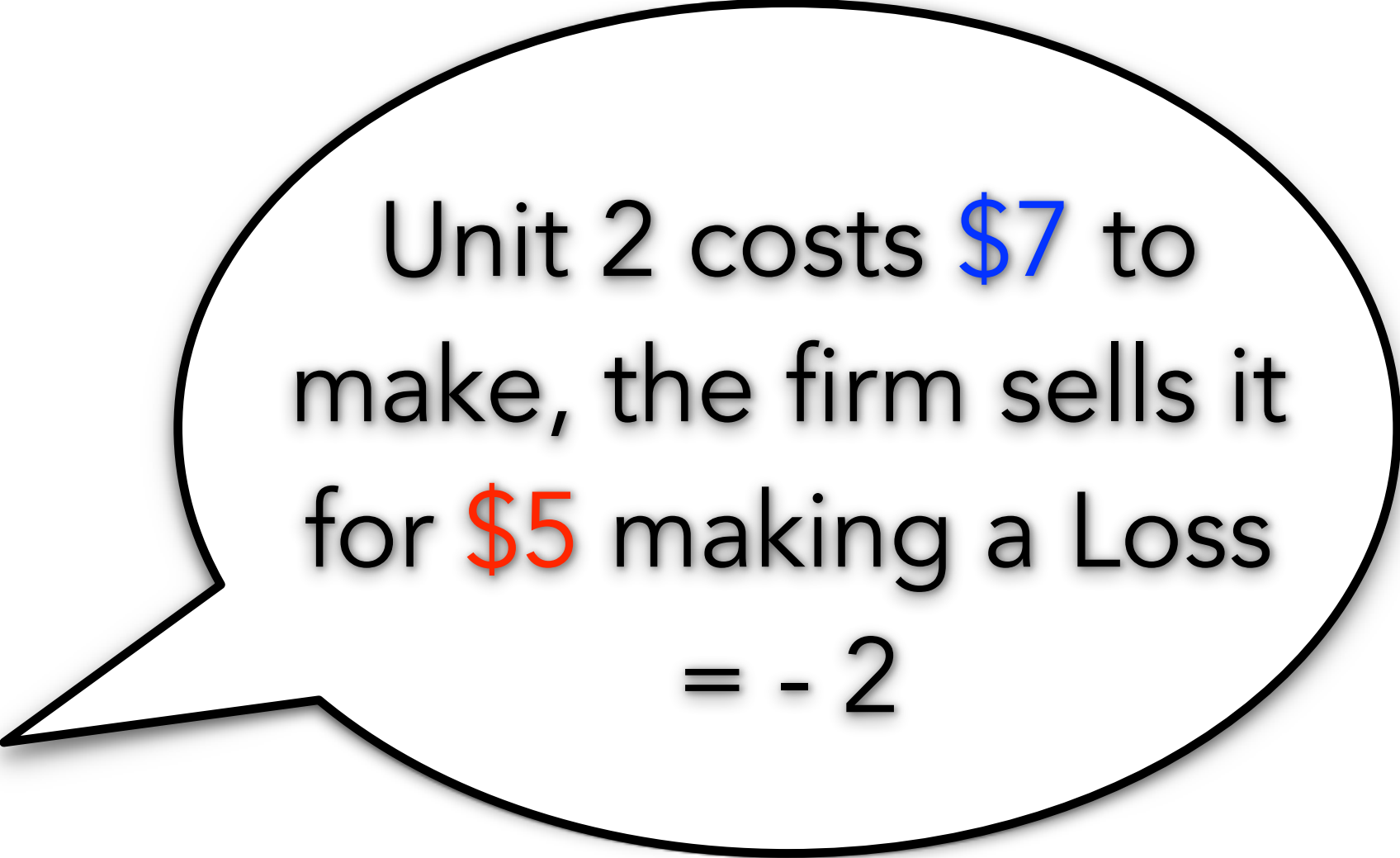
MR: Revenue
the firm gets
from selling the
unit



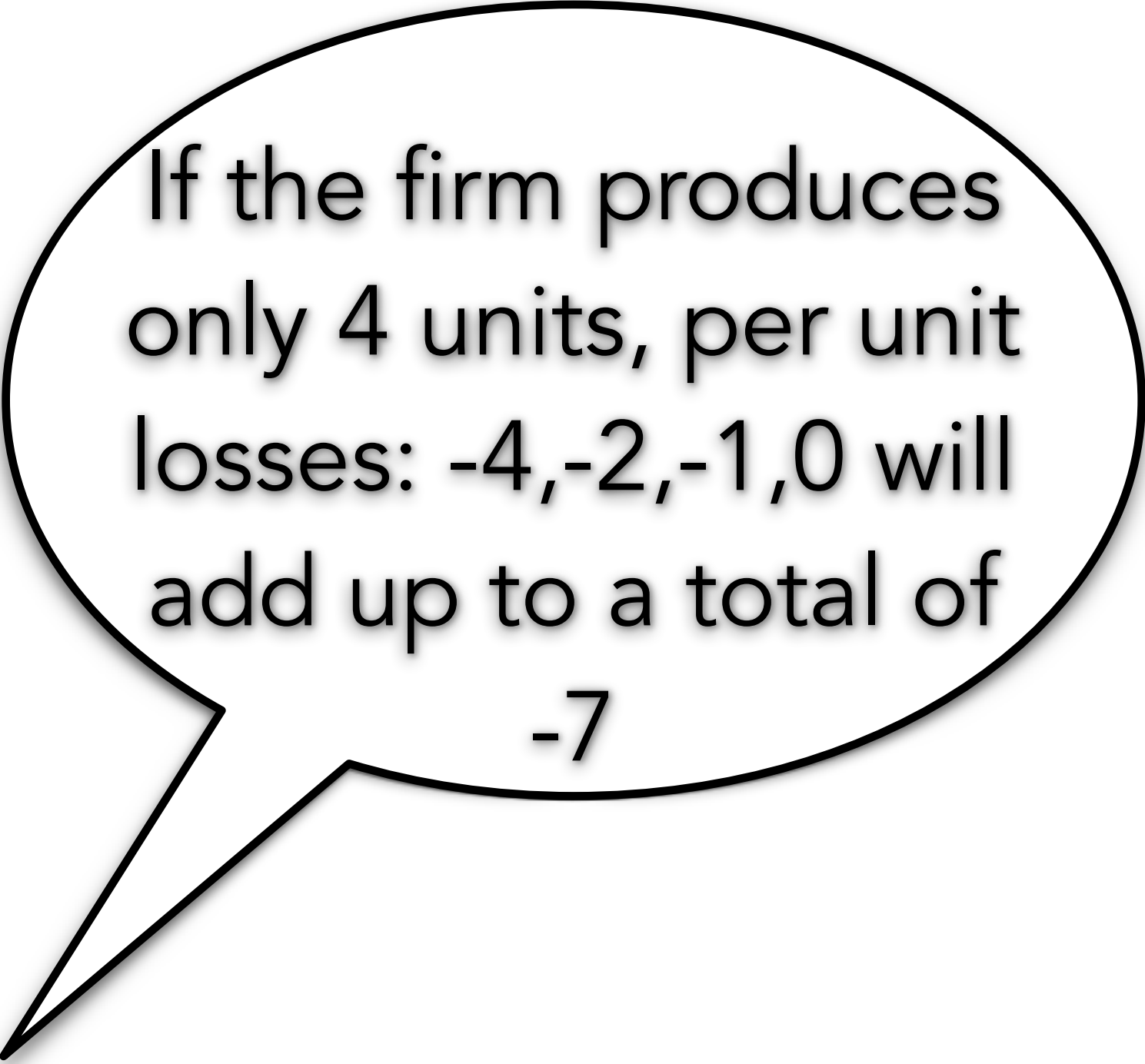
Profit per unit is
different for each unit
because the MC is
different for each unit



Unit 1 costs \$9 to
make, the firm sells it
for \$5 making a Loss
= - 4




Unit 2 costs \$7 to
make, the firm sells it
for \$5 making a Loss
= - 2




If the firm produces only 4 units, per unit losses: -4,-2,-1,0 will add up to a total of

-7



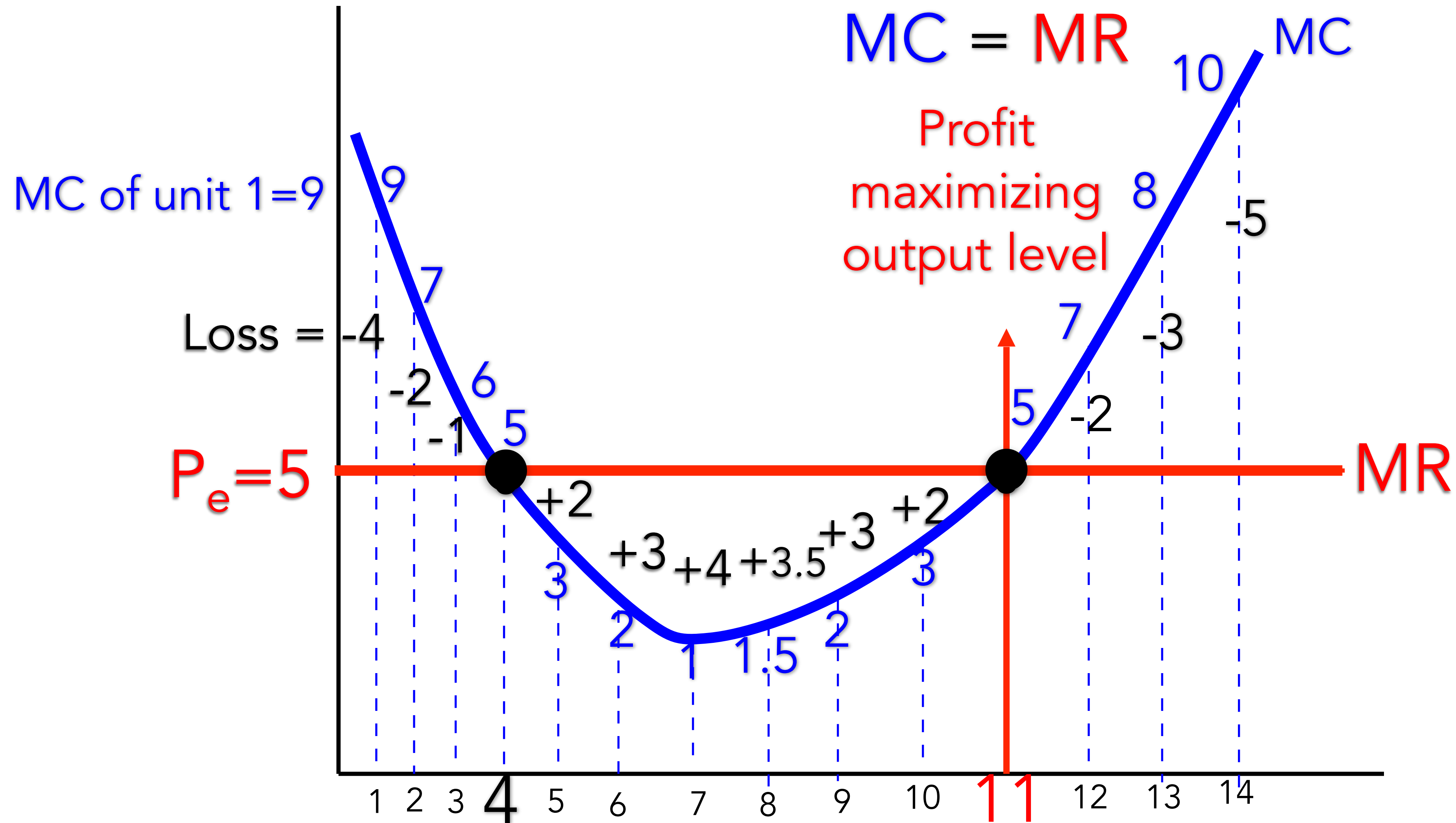
On units where the
MC is less than Price
the firm makes per
unit profits



If the firm produces
11 units, adding all
per unit losses and
profits= total
profit+10.5

Profit
maximizing
output level

If The firm produces more than 11 units, profit will decrease ...



$$\text{Total Profit} = -4 - 2 - 1 + 0 + 2 + 3 + 4 + 3.5 + 3 + 2 + 0 = 10.5$$

To Maximize Total Profit, Perfectly Competitive firms choose output where $MC = MR$

