

95

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105

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110



135

MR=10

MR = 6

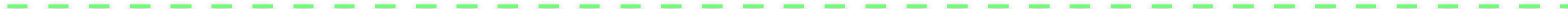
MR=5

MC

If $\text{Price} = \text{AVC}$ the firm is Indifferent
between shutting down and producing q_0

AVC

2



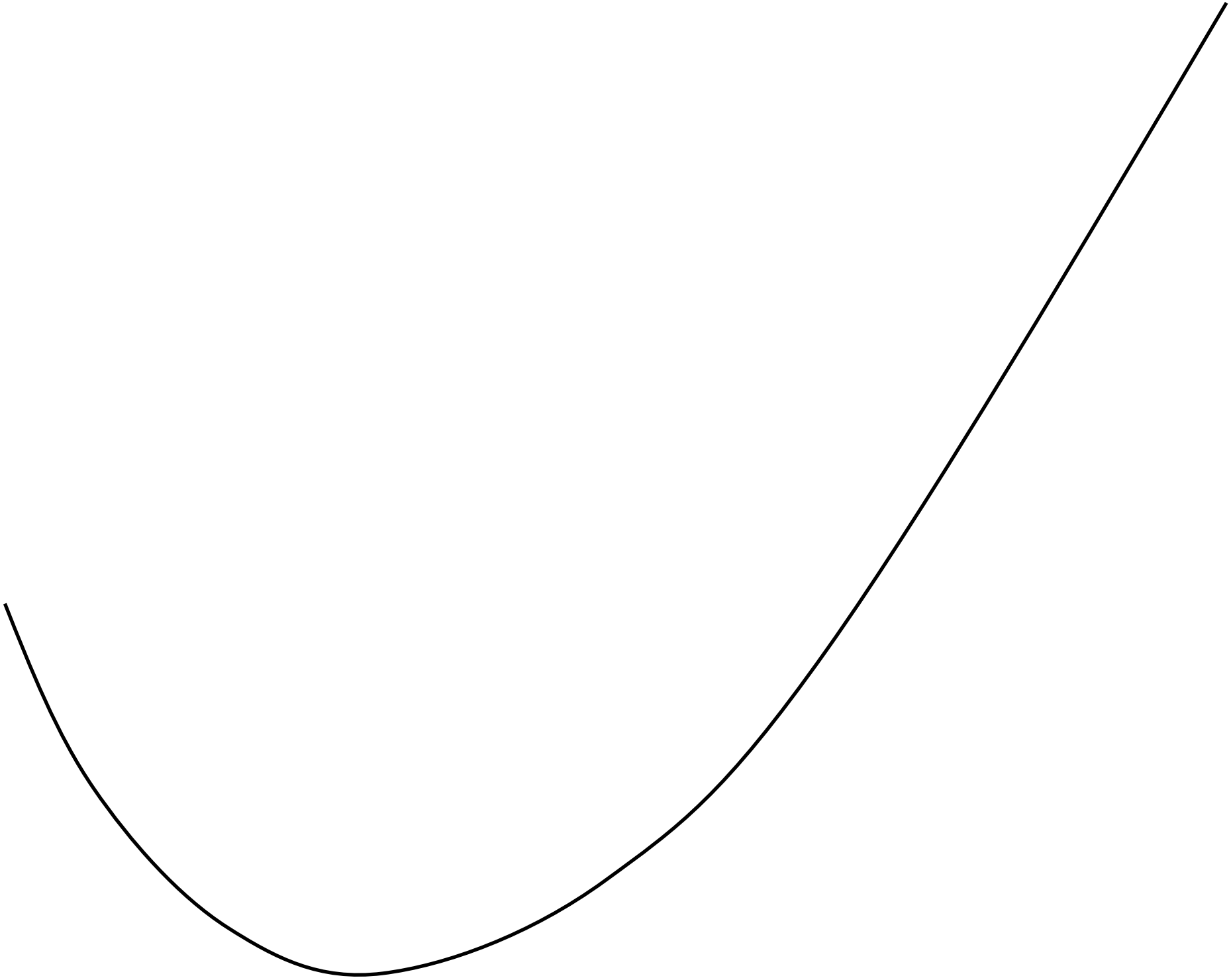
MR=2

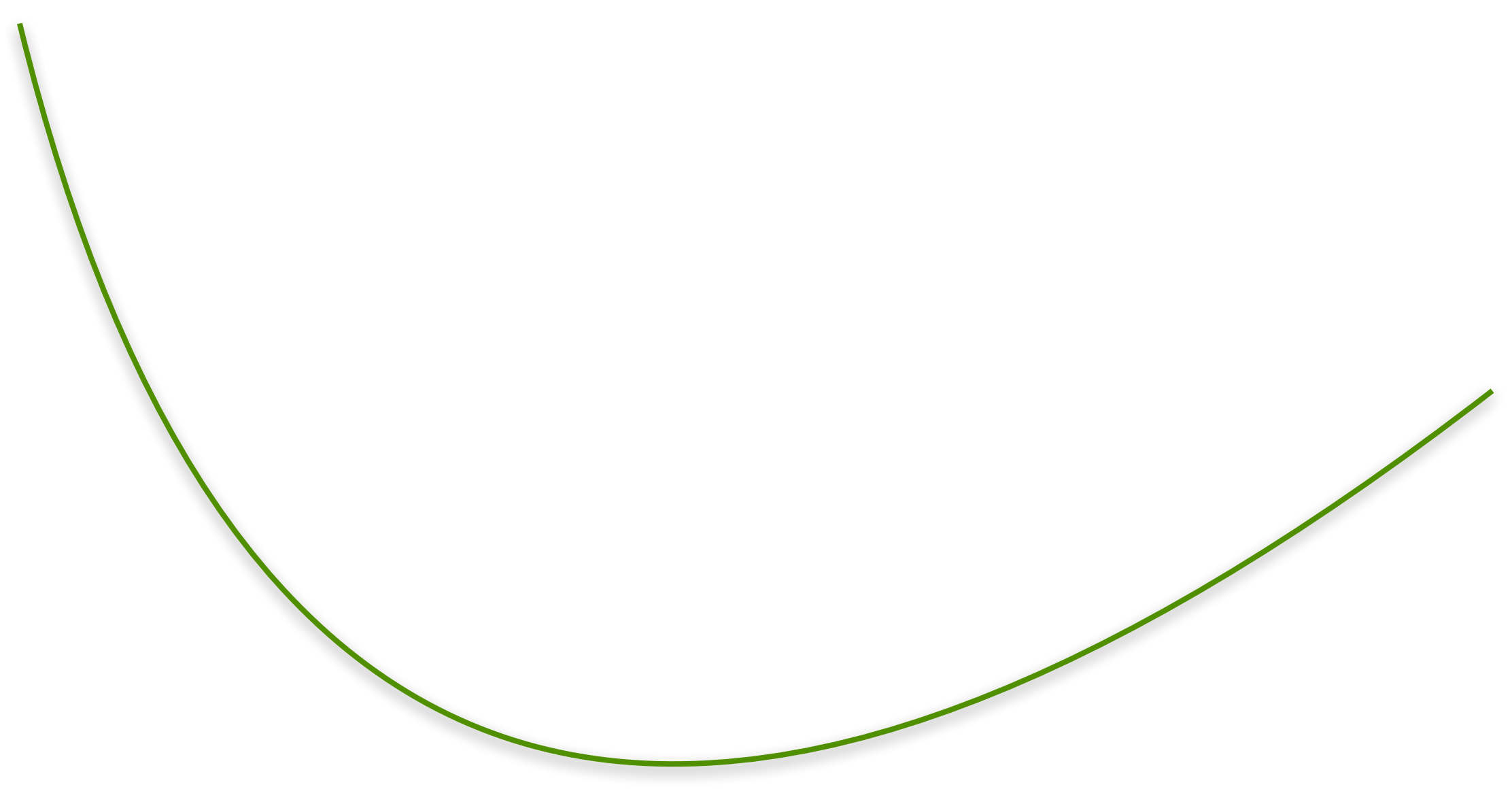
If **Price** $<$ **AVC** the firm should shut
down (produce zero units)

The Firm's Short Run Decision: An example with numbers

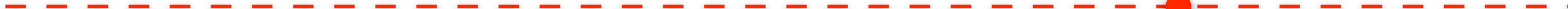








10



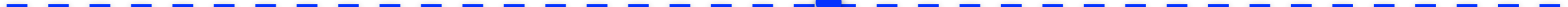
6



5



4



MR=4

3



MR=3

1-----MR=1

Quantity Supplied in the Short Run by each firm

[illegible]

10

135

6

110

5

105

4

95

3

0 or 80

2

0

1

0

If $\text{Price} > \text{AVC}$ the firm should
produce q^* (where $\text{MC} = \text{MR}$)













e

P









d





P

S

b







W







A







h









m

S





u





S



u



d



W





p







u





Z







U







S







S





a







P





d

U







g







W

h







M



[REDACTED]

[REDACTED]

M

R





$q = 0$

80

q

=

0

Q





Quantity Supplied in the Short Run all firms in the industry

Q^s



Assume that there are
100 firms in this
Perfectly Competitive
industry, total supply is
the **sum** of the
individual firm's supply

$$135 \times 1000 = 13,500$$

110xx1000 = 11,000

105x1000=10,500

$$95 \times 1000 = 9,500$$

0 or 80x1000=8,000

0

x

1

0

0

0

x

1

0

0

Once the Price drops below the AVC the firm should shut down (produce zero units) instead of producing q^* (where $MC = MR$)

$$q = 0$$

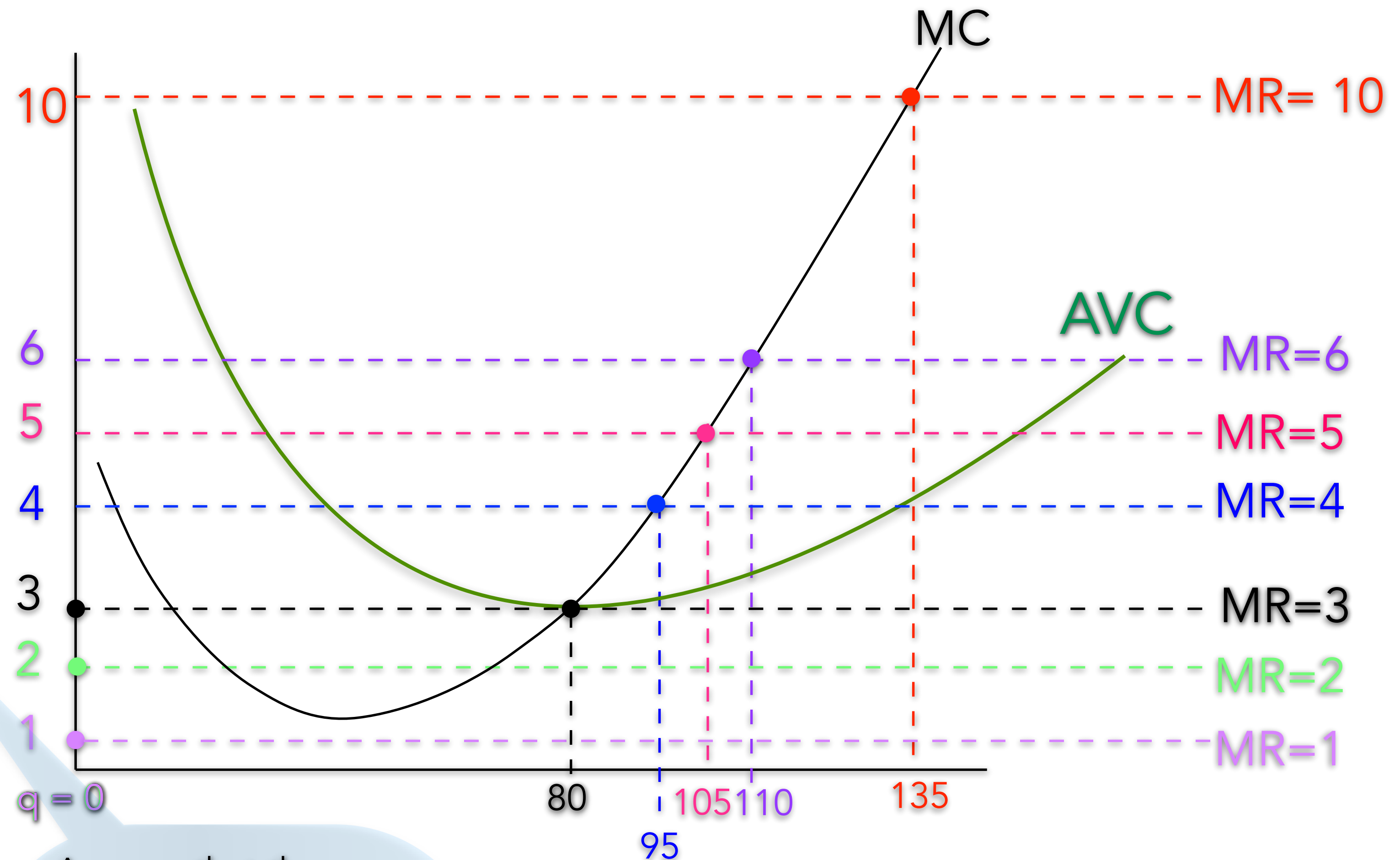
The Firm's **Short Run** Decision: An example with numbers

If **Price** > **AVC** the firm should **produce** q^* (where $MC = MR$)

If **Price** = **AVC** the firm is **Indifferent** between shutting down and producing q_0

If **Price** < **AVC** the firm should shut down (produce zero units)

Price	Quantity Supplied in the Short Run by each firm Q^s	Quantity Supplied in the Short Run all firms in the industry Q^s
10	135	$135 \times 100 = 13,500$
6	110	$110 \times 100 = 11,000$
5	105	$105 \times 100 = 10,500$
4	95	$95 \times 100 = 9,500$
3	0 or 80	0 or $80 \times 100 = 8,000$
2	0	0×100
1	0	0×100



Assume that there are **100** firms in this Perfectly Competitive industry, total supply is the **sum** of the individual firm's supply

Once the **Price drops below** the **AVC** the firm should shut down (produce **zero units**) instead of **producing** q^* (where $MC = MR$)

The Firm's Long Run Decision

