

**SEM IV**

**GE 4.1 Chg Microeconomics I**

**Chapter 2 Oligopoly**

# Economics of Oligopoly

## Topic 3.3.9

Students should be able to:

- Understand the characteristics of this market structure with particular reference to the interdependence of firms
- Explain the behaviour of firms in this market structure
- Explain reasons for collusive and non-collusive behaviour
- Evaluate the reasons why firms may wish to pursue both overt and tacit collusion

# Key Concepts – Oligopoly

Cartel	Association of businesses or countries that collude to influence production levels and thus the market price
Collusion	Takes place when rival companies cooperate for their mutual benefit
Kinked demand curve	Assumes that a business face a dual demand curve for its product based on the likely reactions of other firms
Price leadership	When one firm has a dominant position and firms with lower market shares follow the price changes of the leader
Prisoners' dilemma	Problem in game theory that demonstrates why two people might not cooperate even if in their best interests

# Basics of an Oligopoly

- An oligopoly is an imperfectly competitive industry where there is a high level of market concentration.
- Oligopoly is best defined by the actual conduct (or behaviour) of firms within a market
- The concentration ratio measures the extent to which a market or industry is dominated by a few leading firms.
- A rule of thumb is that an oligopoly exists when the top five firms in the market account for more than 60% of total market sales.

# Characteristics of an Oligopoly

Best defined by the actual behaviour of firms

A market **dominated by a few large firms**

High **market concentration ratio**

Each firm supplies **branded products**

**Barriers to entry and exit**

**Interdependent strategic decisions by firms**

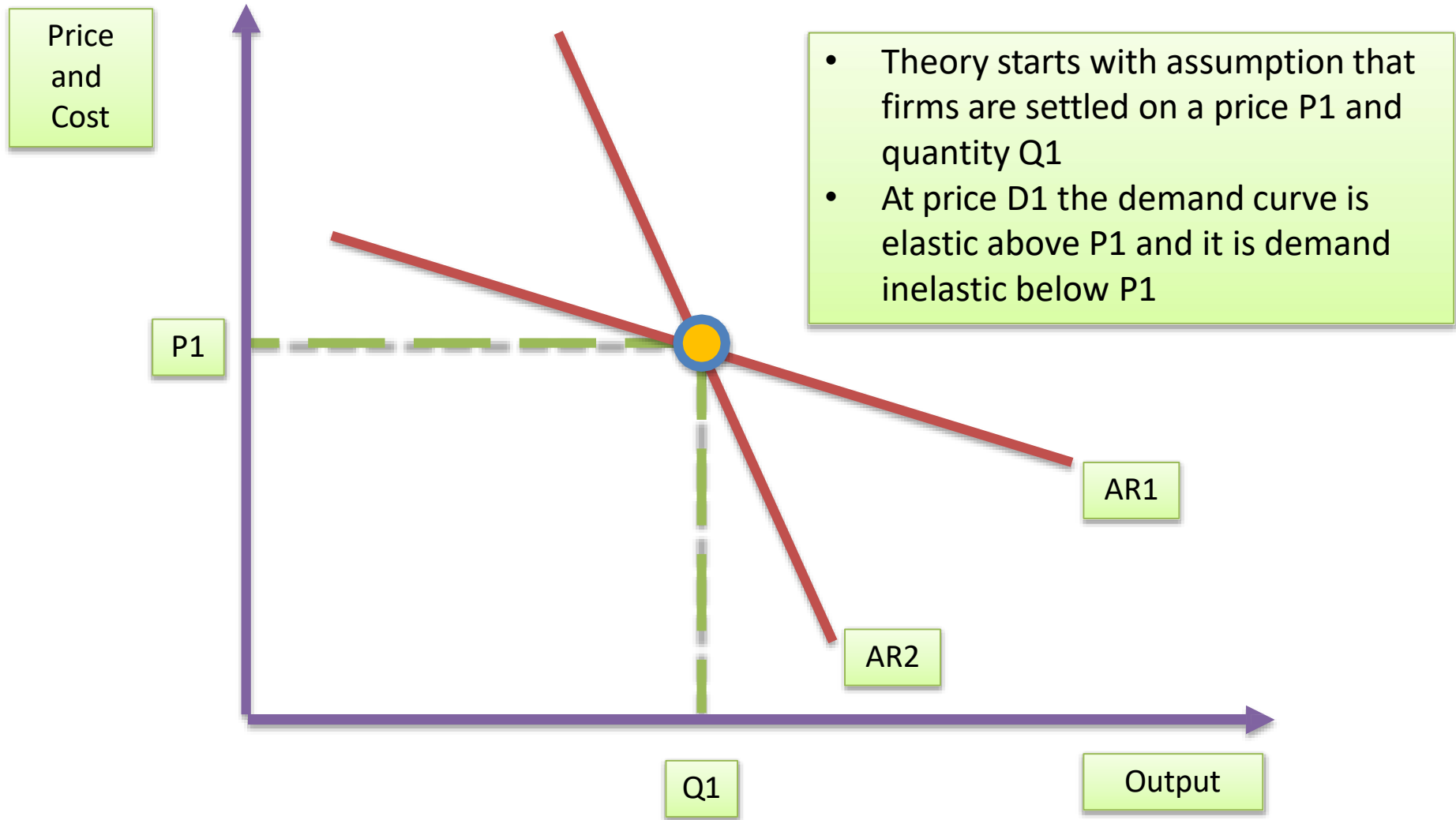
# Meaning of Strategic Interdependence

- Strategic interdependence means that one firm's output and price decisions are influenced by the **likely behaviour of competitors**
- Because there are few sellers, each firm is likely to be aware of the actions of the others.
- Decisions of one firm influence, and are influenced by, the decisions of other firms
- This causes oligopolistic industries to be at high risk of **tacit or explicit collusion** which can lead to allegations of anti-competitive behaviour
- In oligopoly there is a **high level of uncertainty**

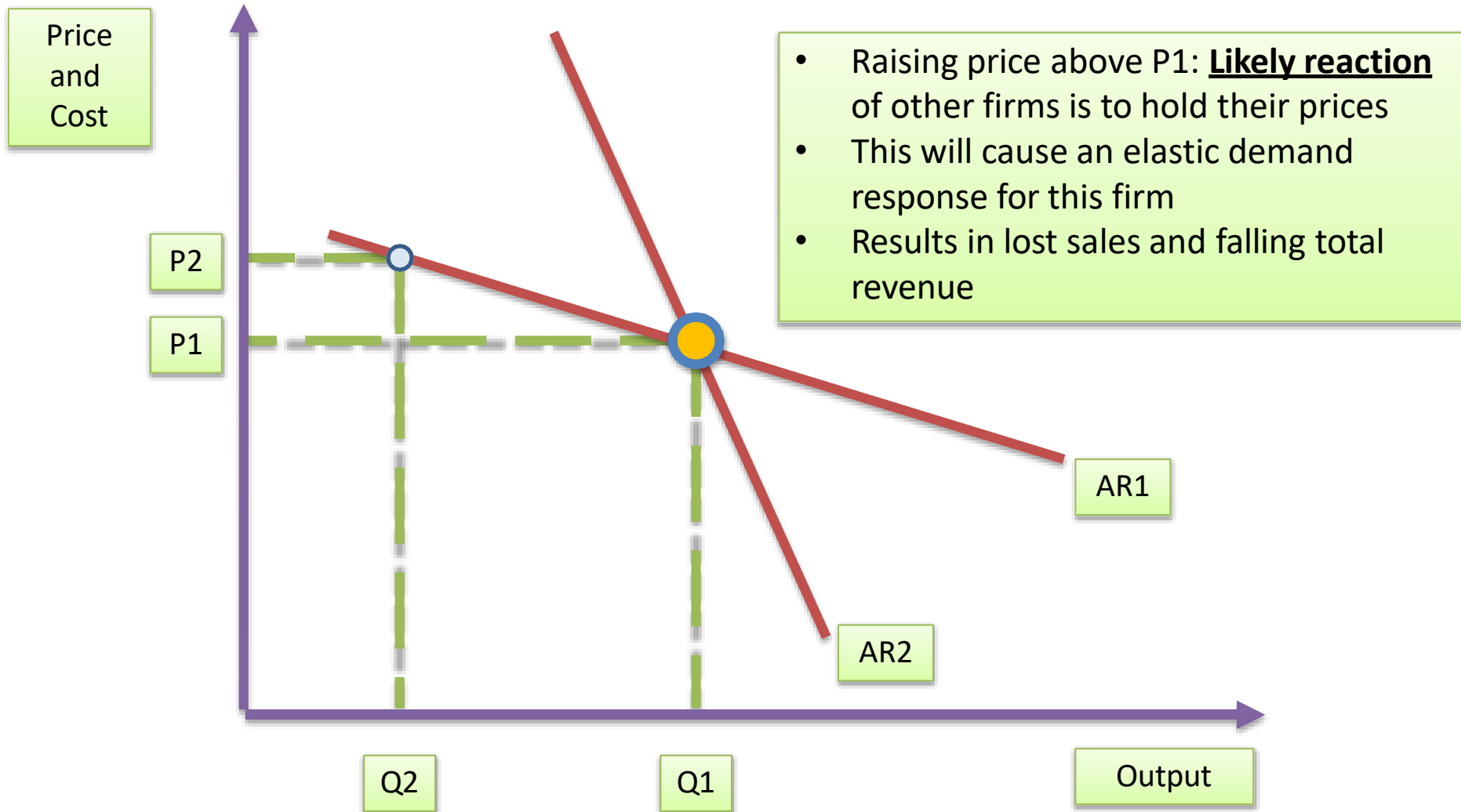
# The Kinked Demand Curve

- A business in an oligopoly faces a downward sloping demand curve but the price elasticity of demand may depend on the **likely reaction of rivals** to changes in one firm's price and output
- (a) Rivals are assumed **not to follow a price increase** by one firm, so the acting firm will lose market share - therefore demand will be relatively elastic and a rise in price will lead to less revenue
- (b) Rivals are assumed to be **likely to match a price fall** by one firm to avoid a loss of market share. If this happens demand will be more inelastic and a fall in price will also lead to a fall in total revenue

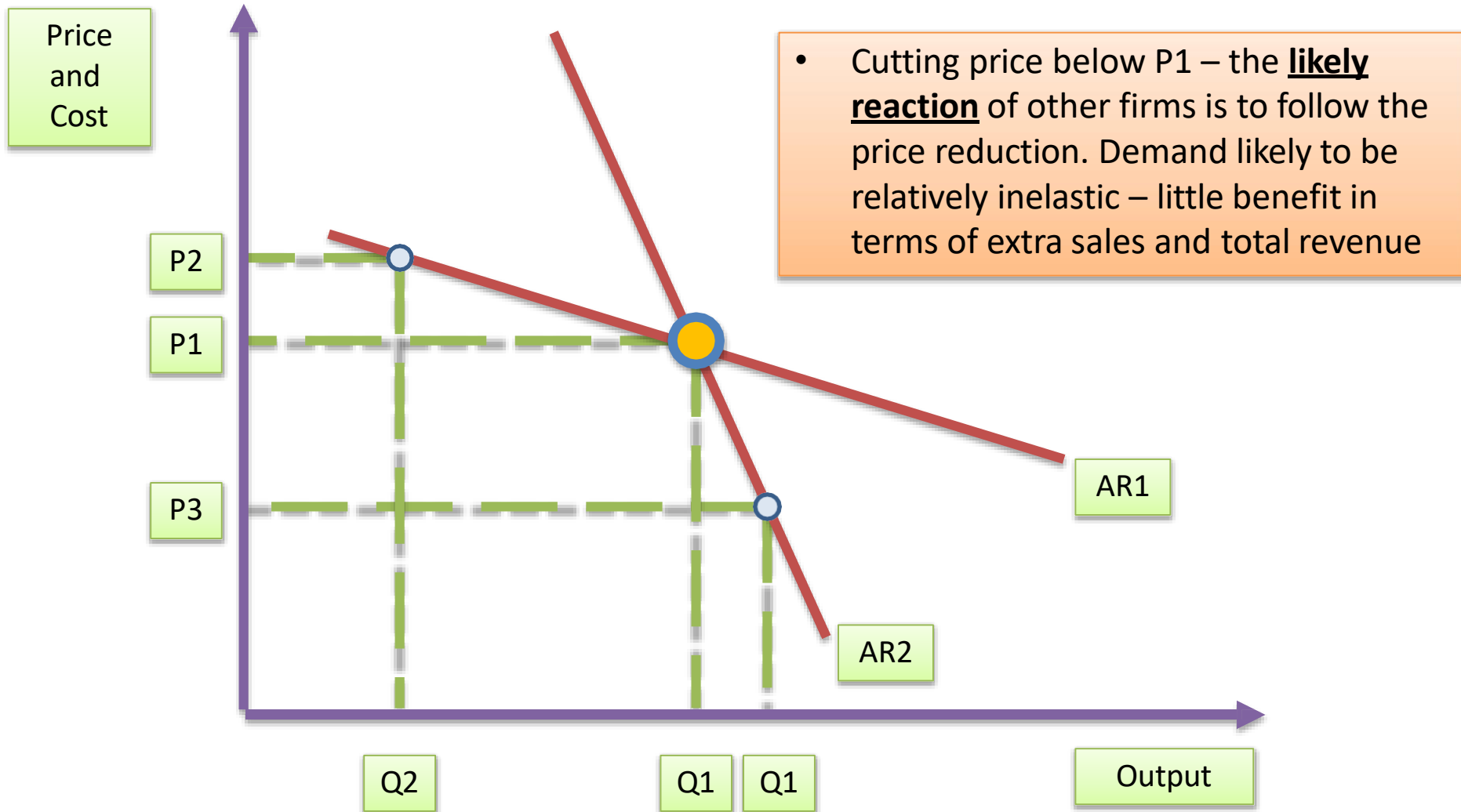
# The Kinked Demand Curve - Analysis



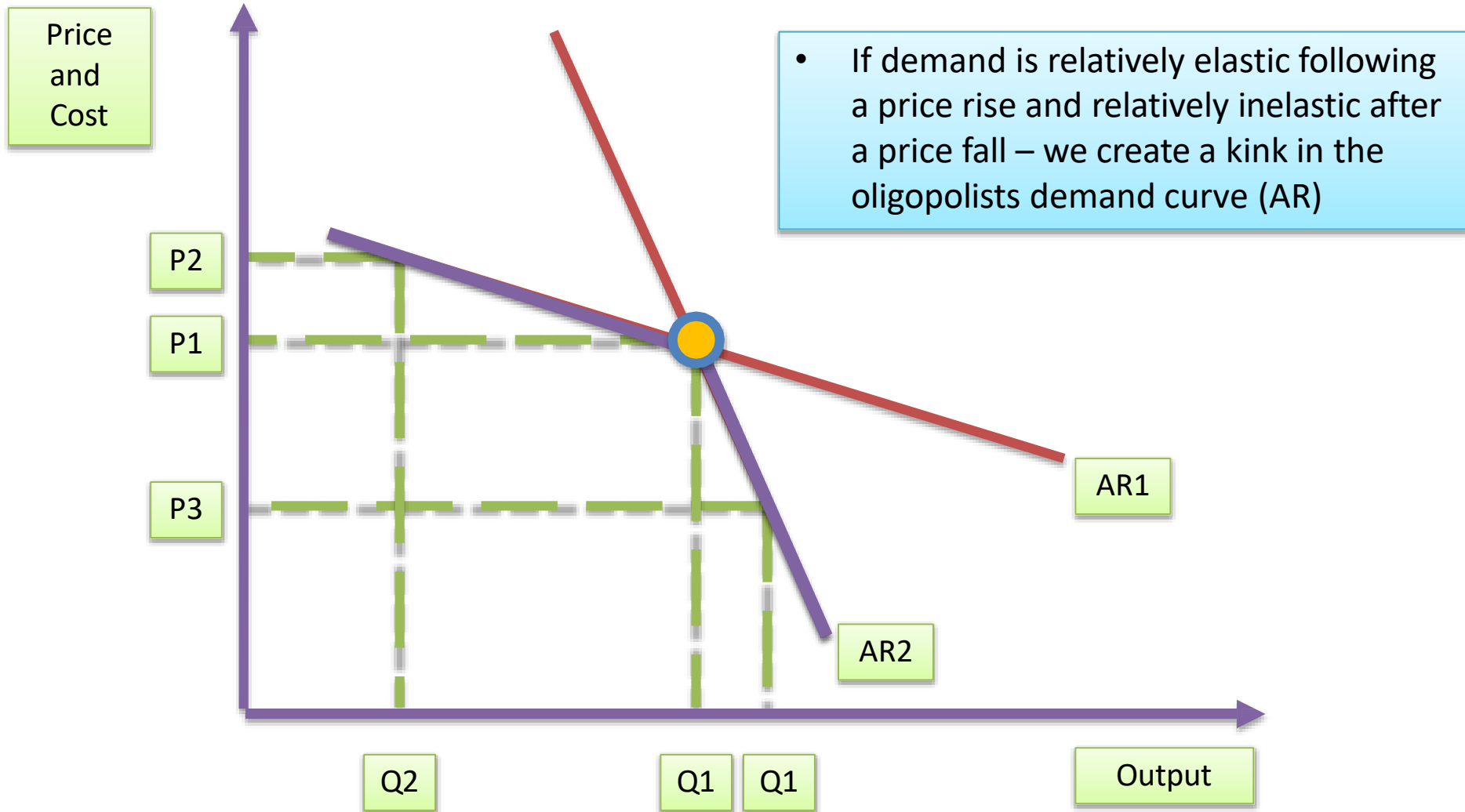
# Kinked Demand Curve – Raising Price



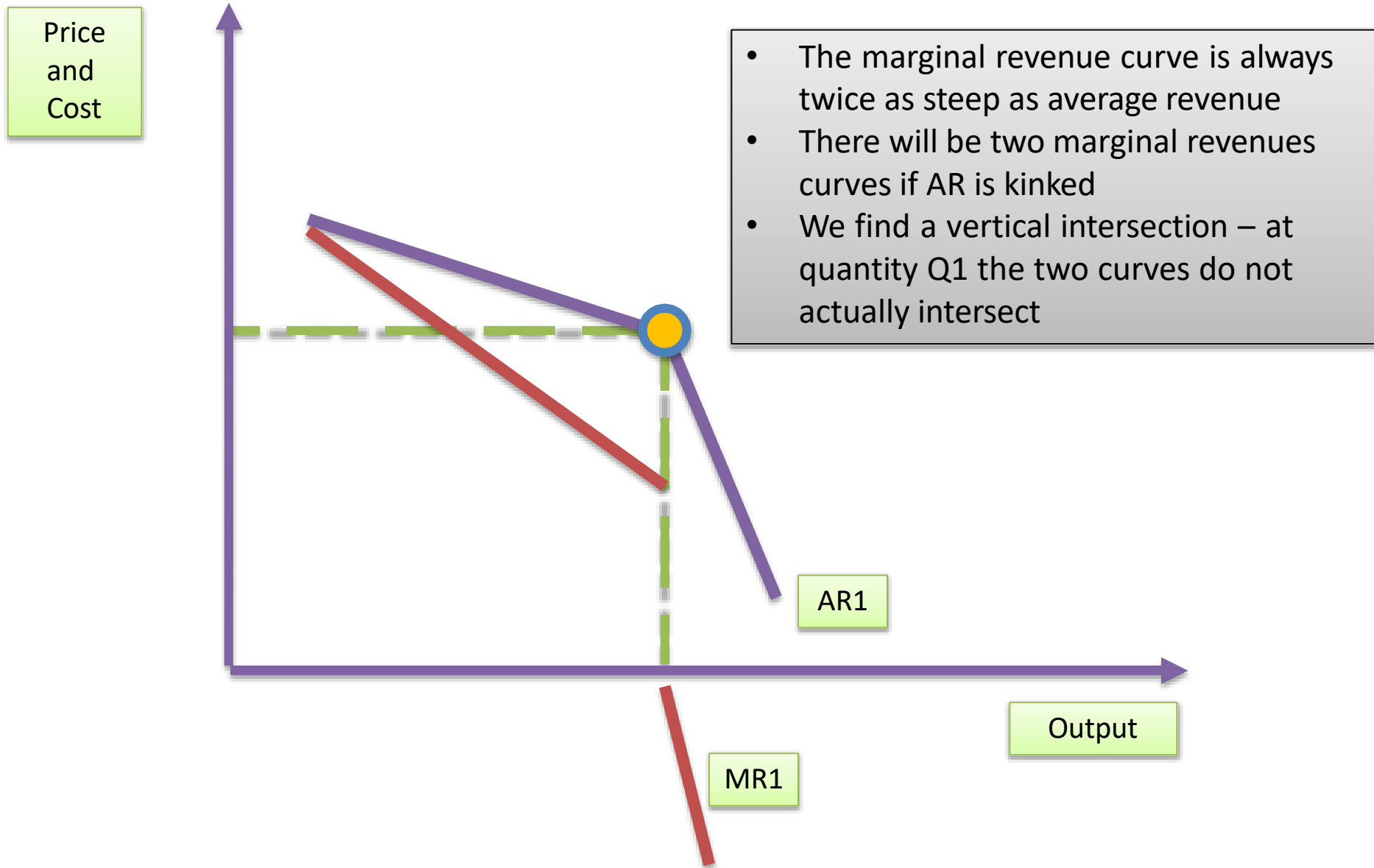
# Kinked Demand Curve – Cutting Price



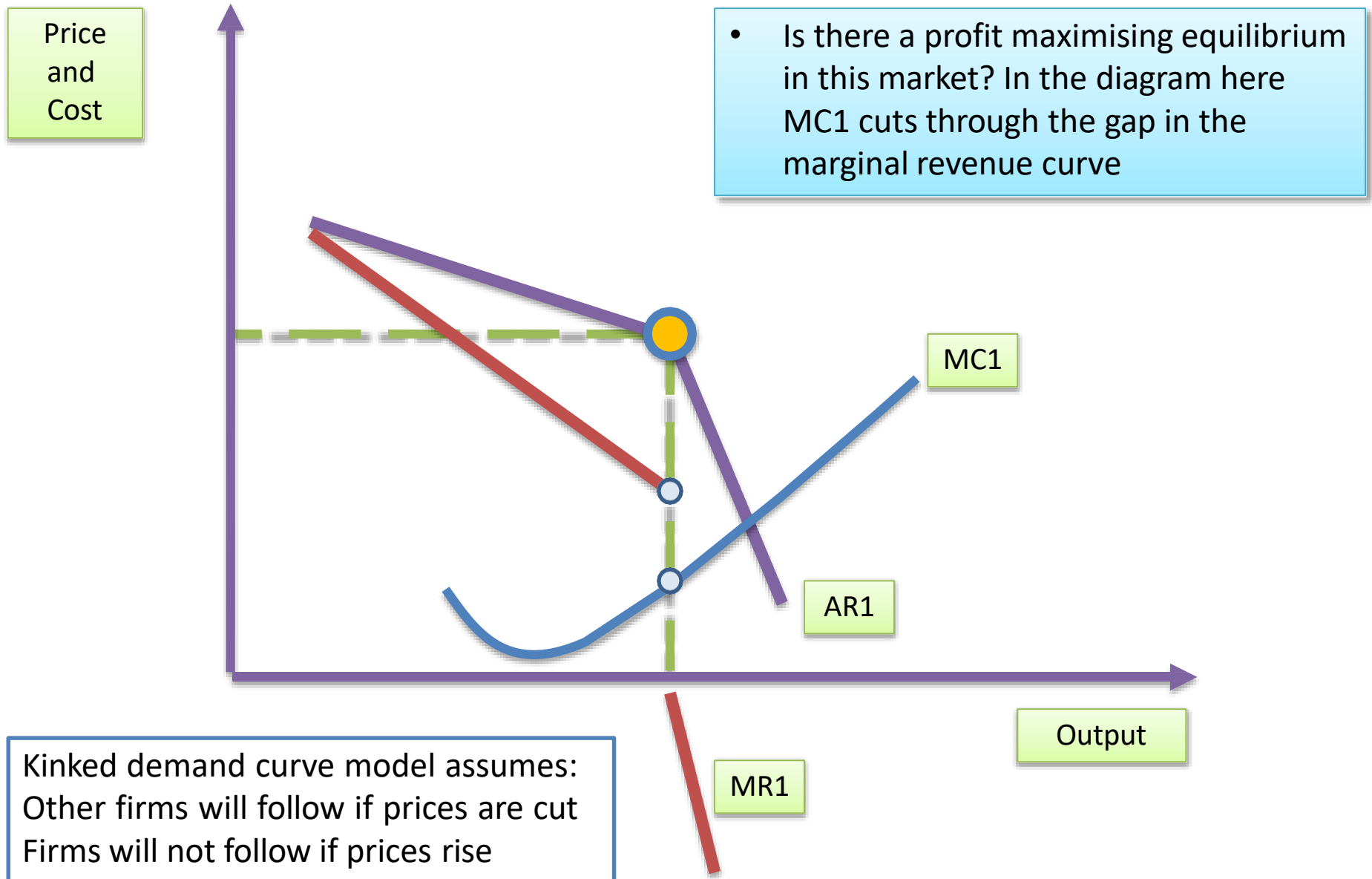
# Kinked Demand Curve – The Kink!



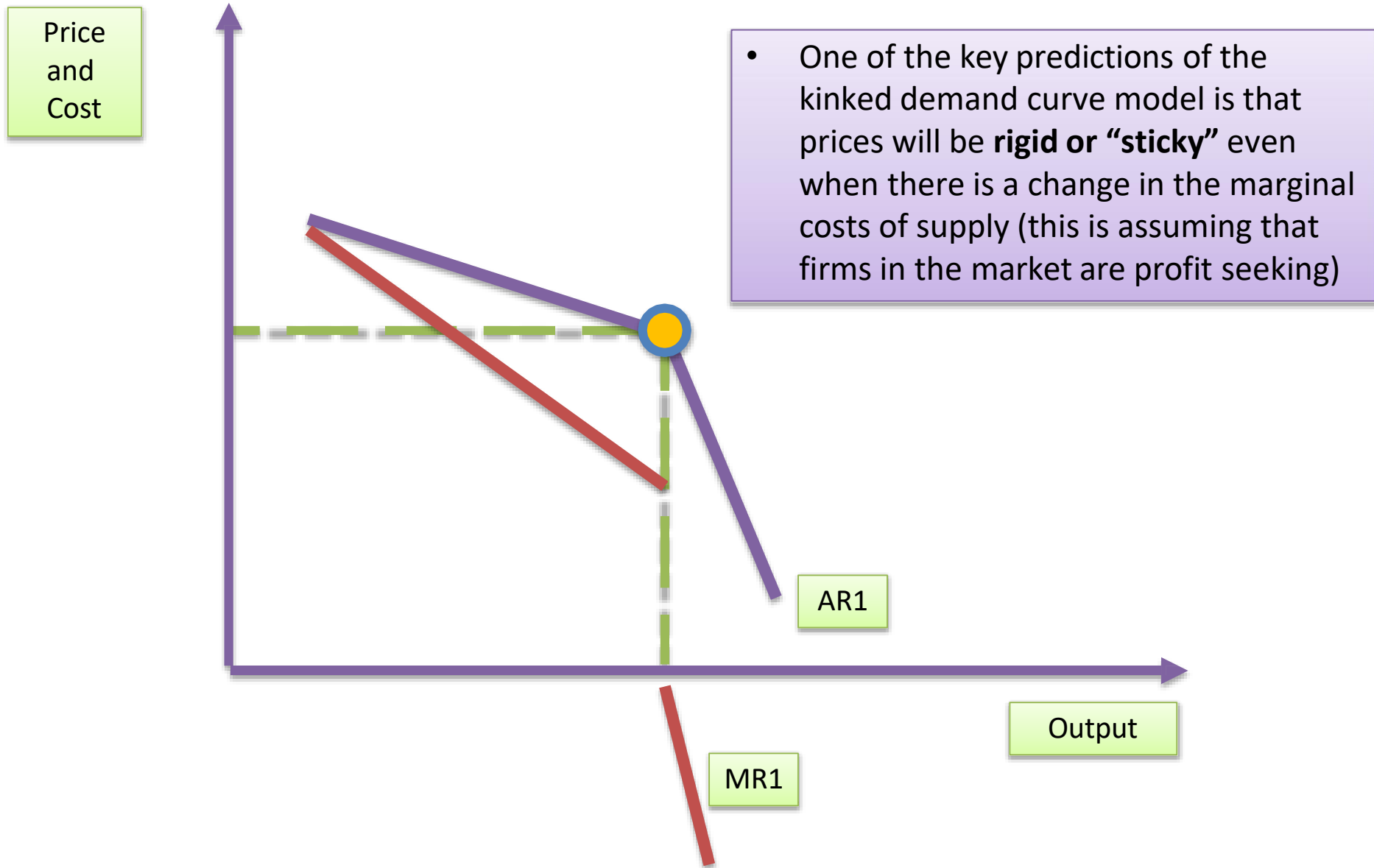
# Kinked Demand Curve – The MR Curve



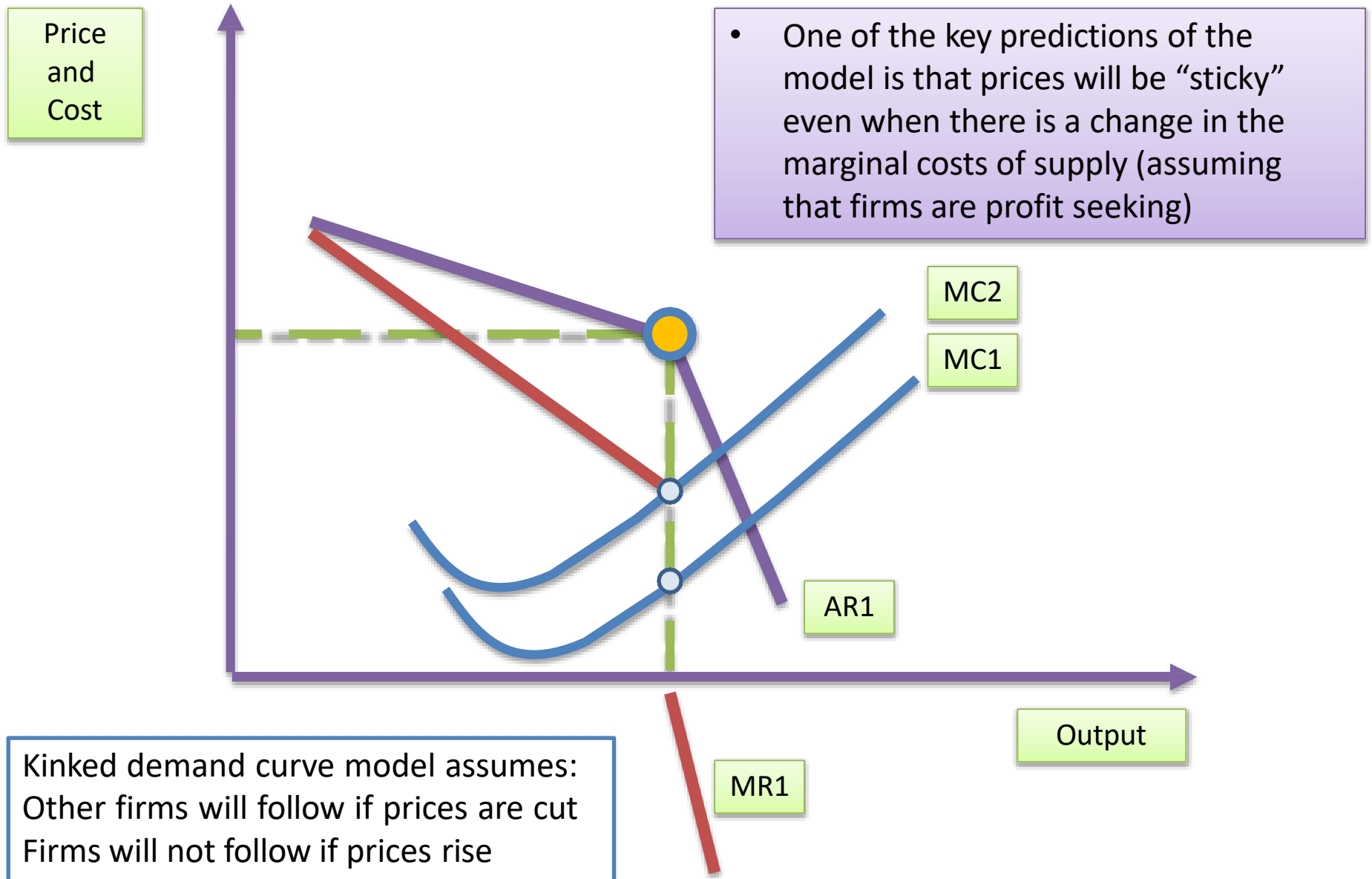
# Kinked Demand Curve – Equilibrium?



# Kinked Demand Curve – Price Rigidity



# Kinked Demand Curve – Price Rigidity



# Kinked Demand Curve – Overview

On oligopoly firms have price-setting power **but may be reluctant to use it**



Rivals unlikely to match a price rise and rivals likely to match a price fall



If a firm is settled on one price, there may be little point in changing it



Even if costs change we often see price rigidity / stability in an oligopoly



This increases the importance attached to non-price competition

# Examples of Non-Price Competition



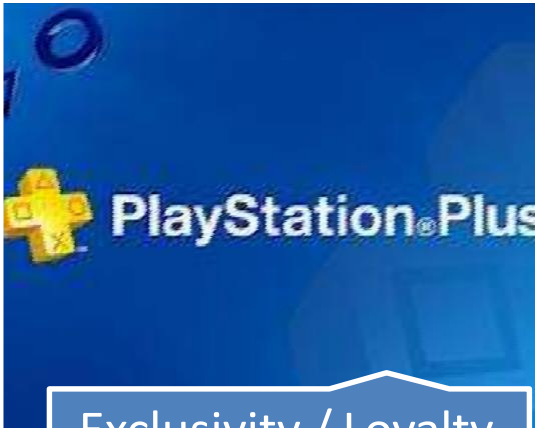
Innovation



Quality of service  
including after-sales



Free Upgrades to  
Products



Exclusivity / Loyalty  
Schemes



Branding



Sales Promotions

# Real World Examples of Price Wars



Low cost  
airlines



Supermarket  
petrol



Mobile phone  
tariffs

Price wars and impact on suppliers

**Supermarket price war squeezes small supplier profit margins by a third**

A report published in November 2015 found that small suppliers with an annual turnover below £25m lack the negotiating power of big rivals and as a result, their profit margins have fallen in one year from 3.5% to 2.1%. By contrast, at the biggest food companies, whose turnover tops £1bn, margins increased from 5.2% to 5.4% last year

# Who Wins and Loses from Price Wars?

Price wars may lead to short run increases in sales and revenues, but may not be in the long-term commercial interests of a business



## Winners

- Regular consumers
- Managers – higher sales

## Losers

- Shareholders - lower profits
- Suppliers – may get squeezed

# Long Term Tendency towards Oligopoly

## Economies of scale

- Large minimum efficient scale (high ratio of fixed to variable costs of production)

## Mergers and takeovers

- Consolidation of industries through acquisitions e.g. horizontal integration between suppliers

## Rise of dominant brands

- High rates of profits and barriers to entry & exit