



$$Q^d = 20 - 2P_e$$

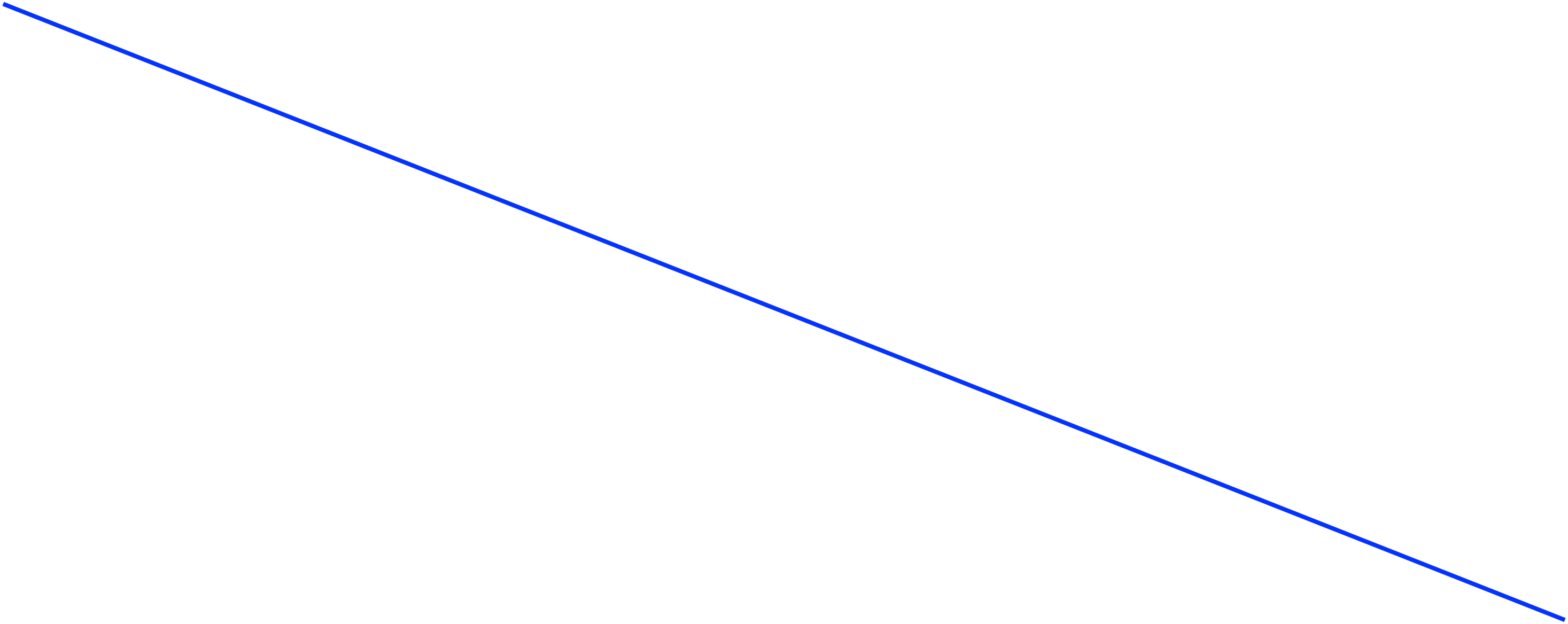




10

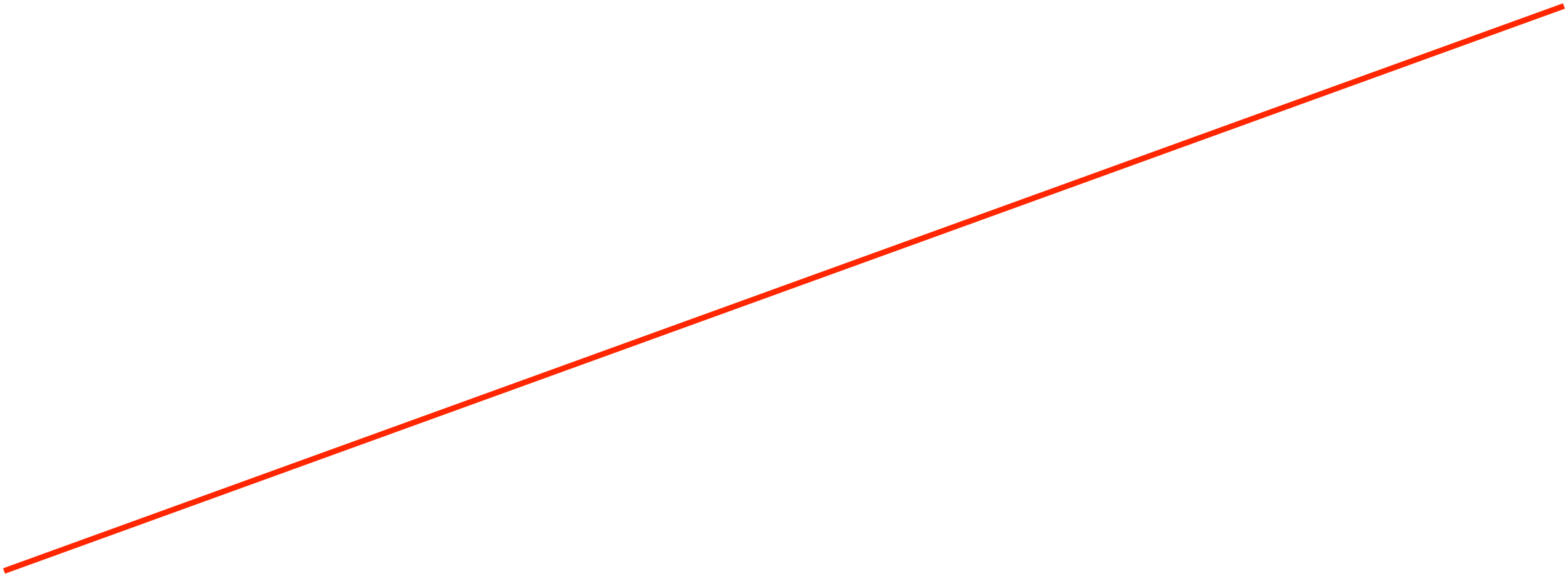


20



Demand

3



Supply



$$Q^s = -15 + 5P_e$$



Qs

=

Qd

Calculating Equilibrium Price

[REDACTED]

[REDACTED]

-15 + 5Pe

[REDACTED]

[REDACTED]

20-2Pe

5P_e + 2P_e

[REDACTED]

[REDACTED]

20

+

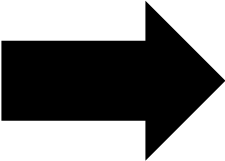
15

7Pe

[REDACTED]

[REDACTED]

35



$$P_e = 35/7$$

Pe

=

5



$Q_s = -15 + 5P$

$$Q^d = 20 - 2P$$

At Equilibrium, Quantity Supplied = Quantity Demanded

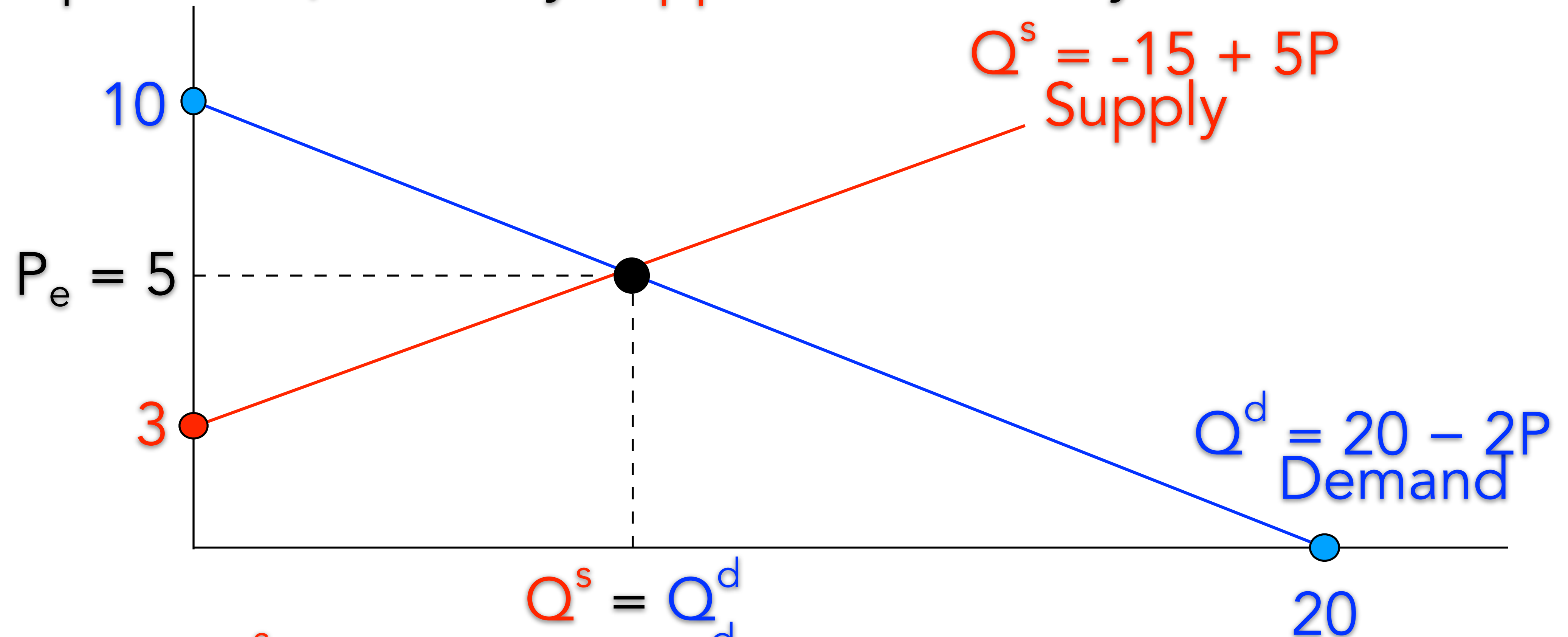
Solve for Price:

Pe

=

5

At Equilibrium, Quantity **Supplied** = Quantity **Demanded**



$$Q^s = Q^d$$
$$Q^s = -15 + 5P_e = Q^d = 20 - 2P_e$$

$$-15 + 5P_e = 20 - 2P_e$$

Solve for Price: $5P_e + 2P_e = 20 + 15$

$$7P_e = 35 \Rightarrow P_e = 35/7 \quad P_e = 5$$

