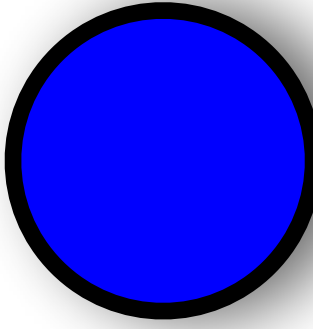
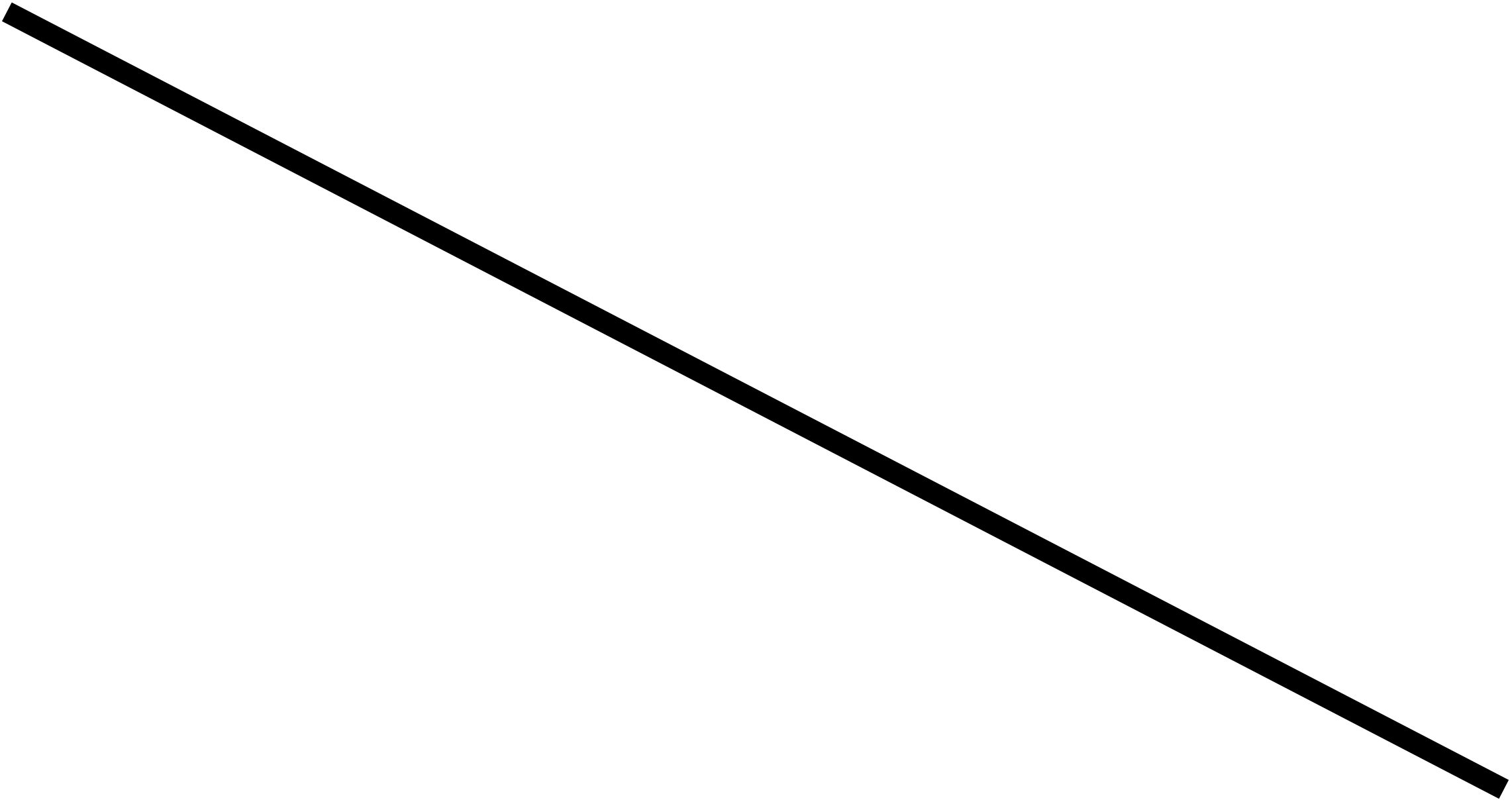
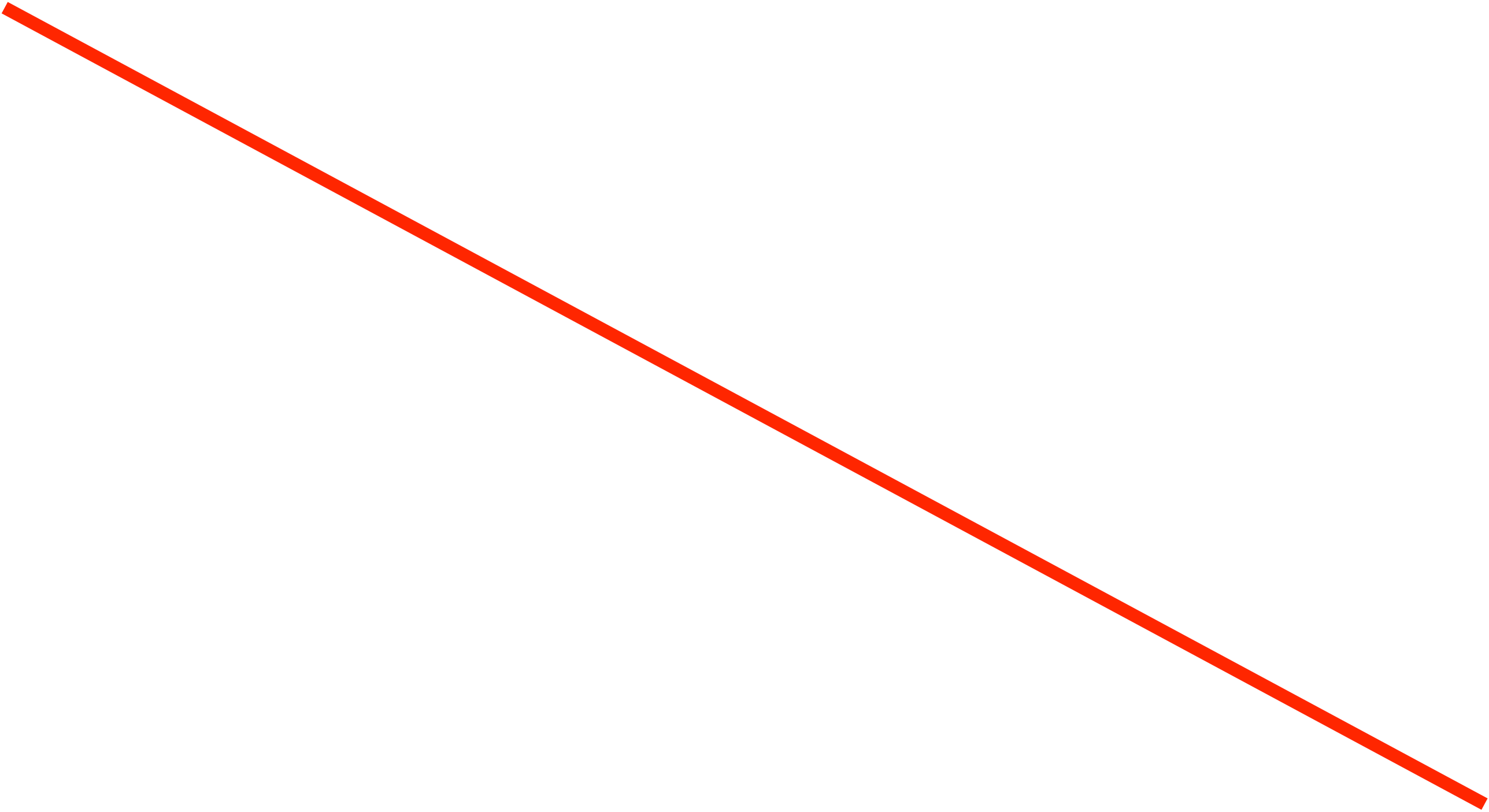
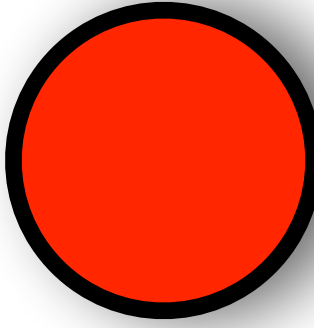
Demand Increase: Consumers buy 10 units more at all prices

$$P = 10$$

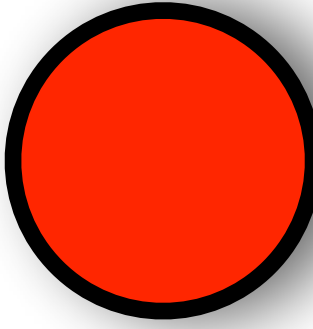








$$P = 15$$



$$Q^d = 30$$

If P == 0

$$\text{New } Q^d = 30 - 2P$$

If new $Q^d = 0$

$$0 = 30 - 2P$$

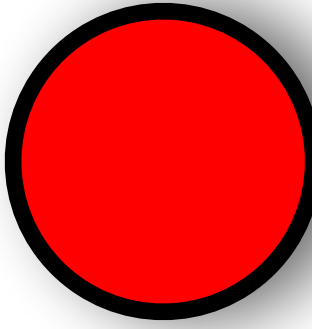
$$2P = 30$$

$$P = 30/2$$

P = 15

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

$$Q^d = 20$$



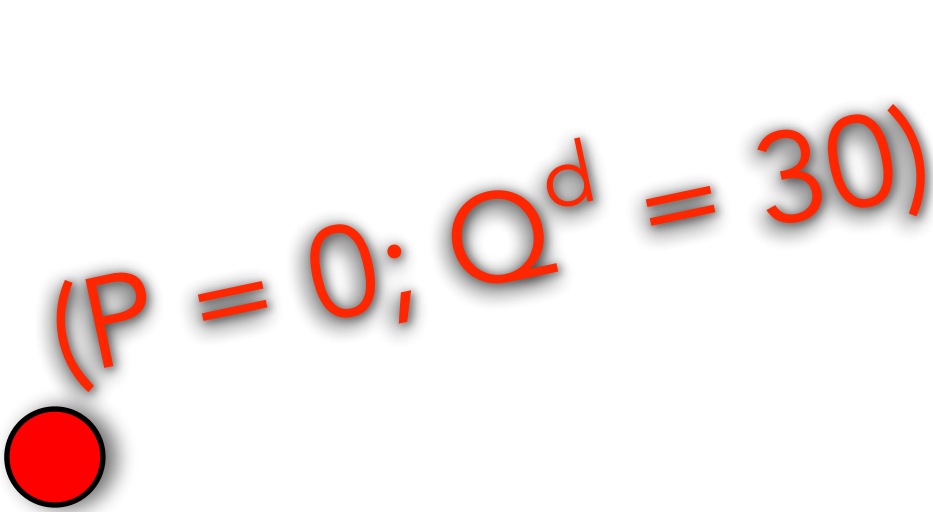
If P == 0

$$\text{New } Q^d = 20 - 2P + 10$$

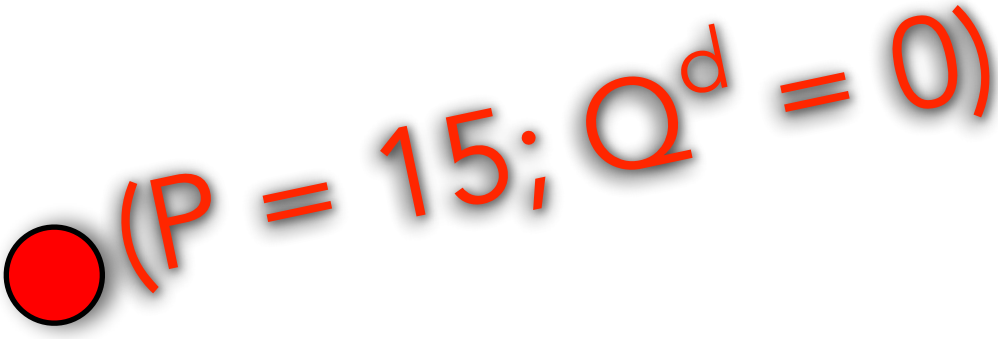

+10


+10

+10


(P = 0; Q^d = 30)


0

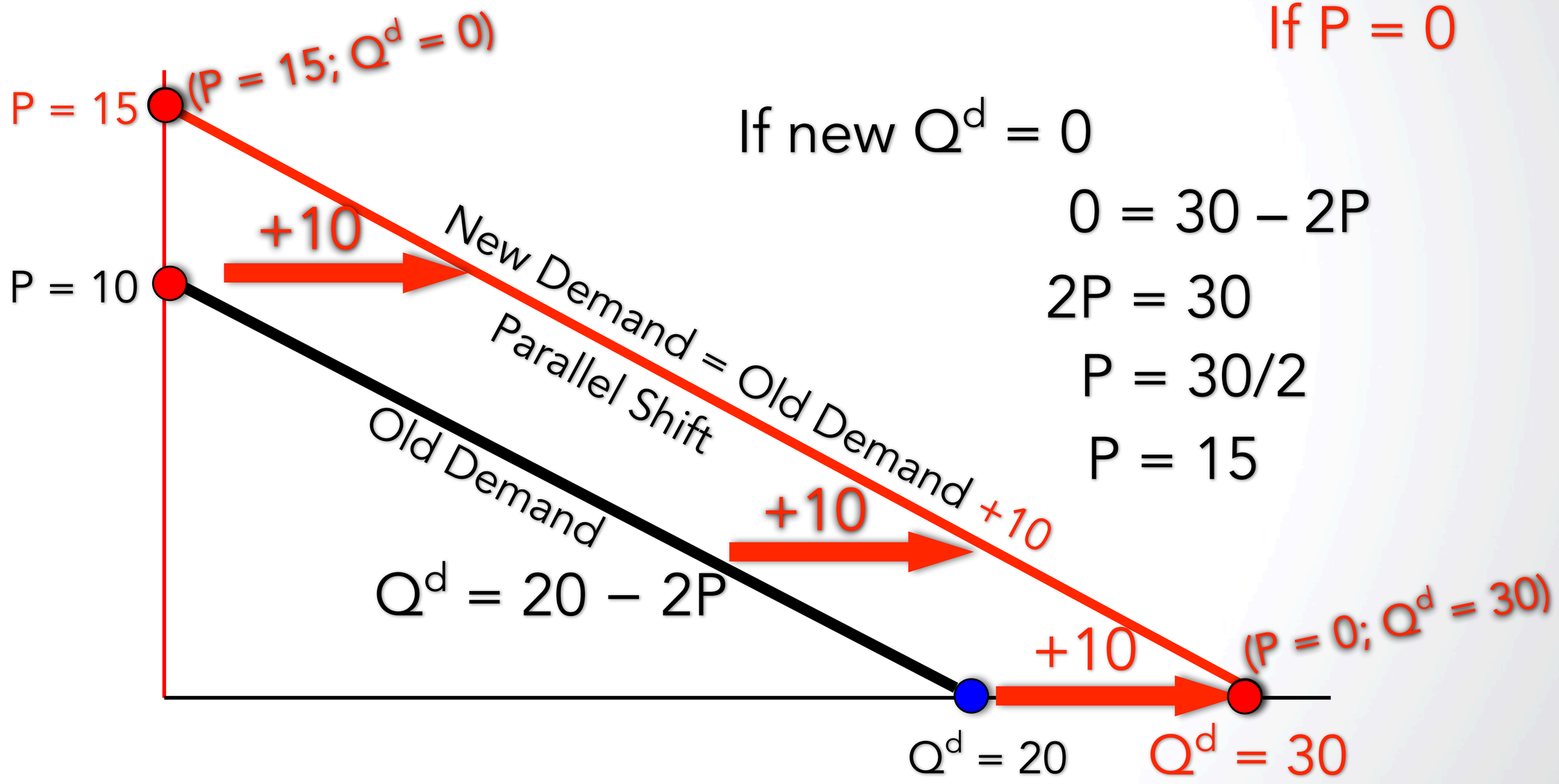

(P = 15; Q^d = 0)

Demand Increase: Consumers buy 10 units more at all prices

New $Q^d = 20 - 2P + 10$

New $Q^d = 30 - 2P$

If $P = 0$



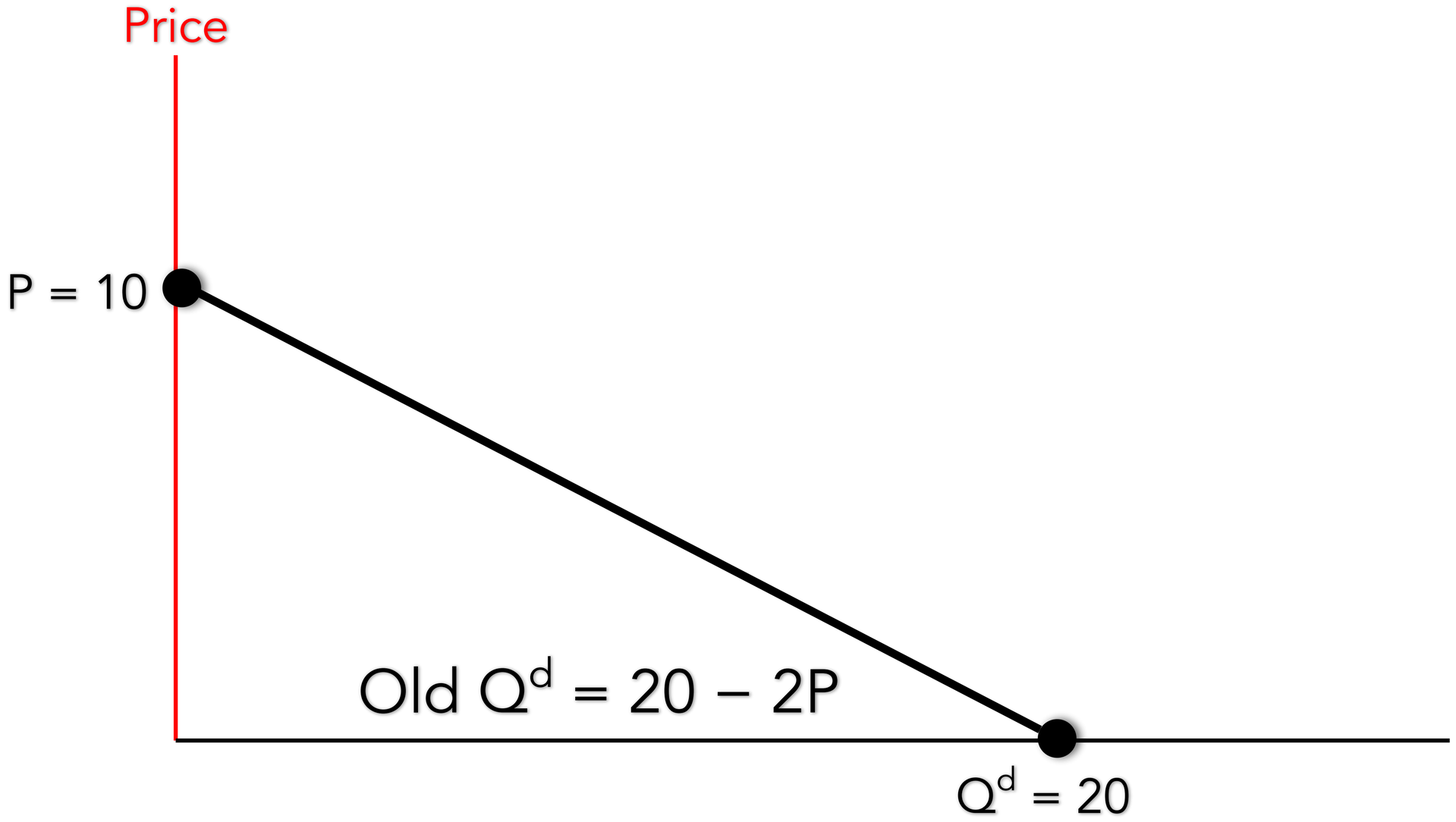
If new $Q^d = 0$

$0 = 30 - 2P$

$2P = 30$

$P = 30/2$

$P = 15$


Price
P = 10
Old $Q^d = 20 - 2P$
$Q^d = 20$