

0

Answer: **P**•Q



#4 
$$\overline{0 \cdot \overline{Q}} = 1 + Q = 1$$

Answer: 1



 $\#1 \quad P+Q$ 

#2 **P**•Q

\*\*\* #3 
$$(P+Q) \bullet (\overline{P} \bullet Q) = (\overline{P} \bullet Q) \bullet (P+Q) = (\overline{P} \bullet Q) \bullet P + (\overline{P} \bullet Q) \bullet Q = \overline{P} \bullet P \bullet Q + \overline{P} \bullet Q = 0 \bullet Q + \overline{P} \bullet Q = 0 + \overline{P} \bullet Q = \overline{P} \bullet Q$$

\*\*\* From Boolean Algebra Properties: A(B + C) = AB + AC