Think Break #4 Answer

1. \( Q(X) = 4 + 15X - 7X^2 \)
   - 1st derivative: \( \frac{dQ}{dX} = 15 - 14X \)
   - 2nd derivative: \( \frac{d^2Q}{dX^2} = -14 \)

2. \( \pi(X) = 2(5 - X - 3X^2) - 8X - 15 \)
   - 1st derivative: \( \frac{d\pi}{dX} = 2(-1 - 6X) - 8 = -10 - 12X \)
   - 2nd derivative: \( \frac{d^2\pi}{dX^2} = -12 \)