| 2 | **C is the correct answer** as a path difference of λ is equivalent to a phase difference of 360°, so $3\lambda/8$ is equivalent to 3/8ths of 360° which $= 135°$ | (1) |

A is not the correct answer as 34° is 3/8ths of 90°

B is not the correct answer as 68° is 3/8ths of 180°

D is not the correct answer as 270° is 3/8ths of 720°