Following along path A
at a fixed instant of time

starting from top slit

starting from bottom slit

point X

Following along path B
at an instant of time

point X
(on screen)

path A

path B

Is the result
1. a maximum,
2. a minimum,
3. Zero or
4. neither?

Following along path A
at a fixed instant of time
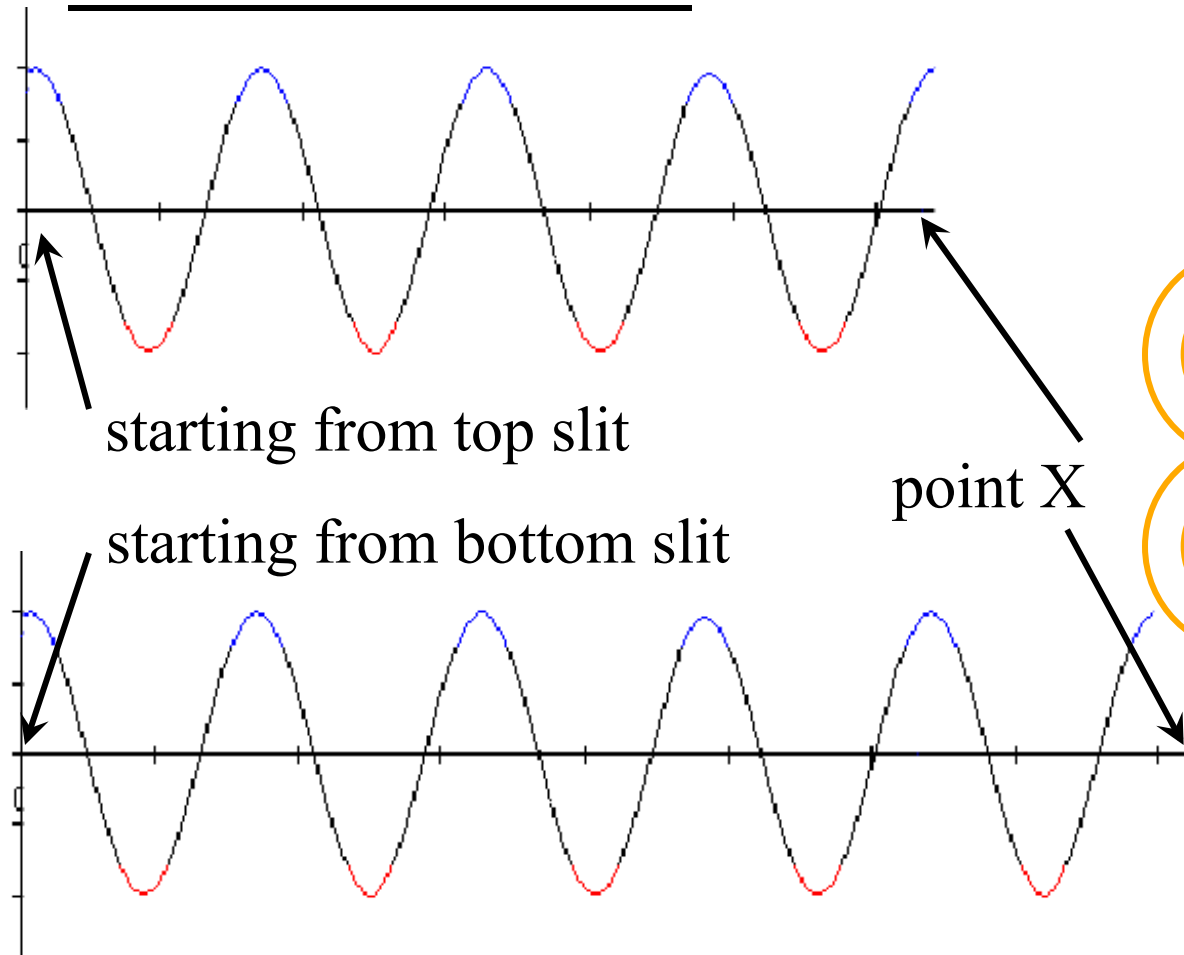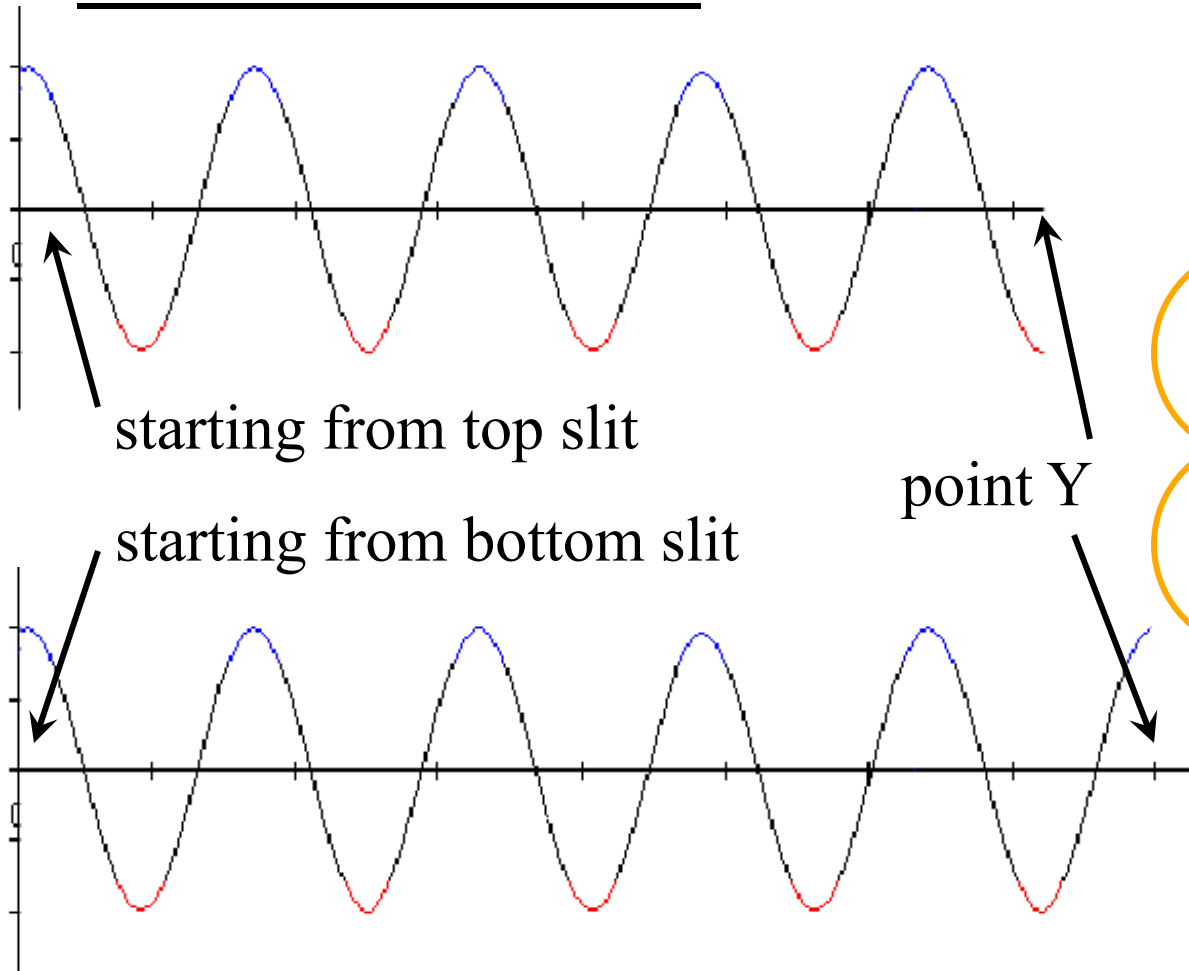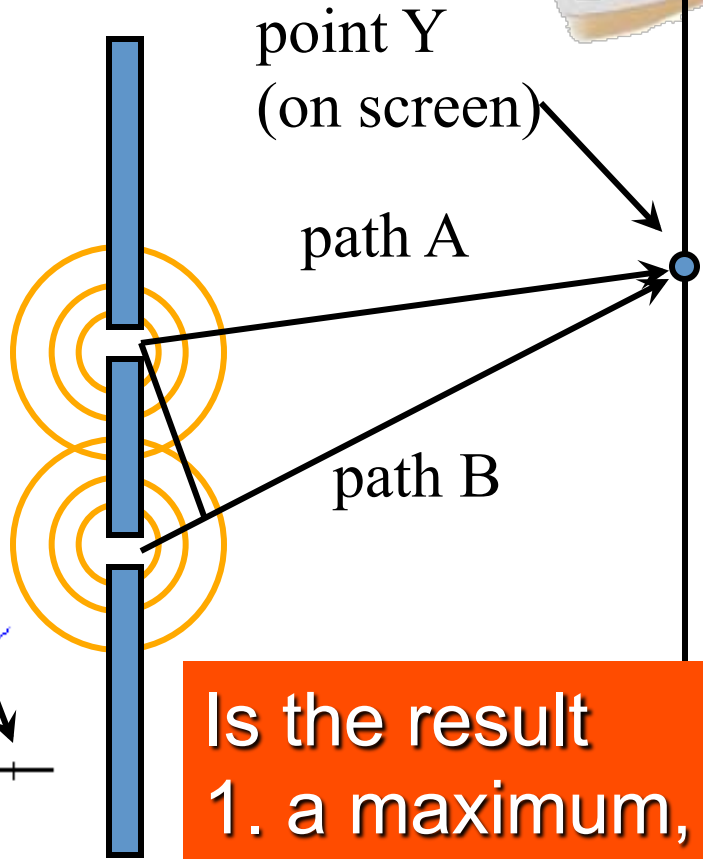
starting from top slit

starting from bottom slit
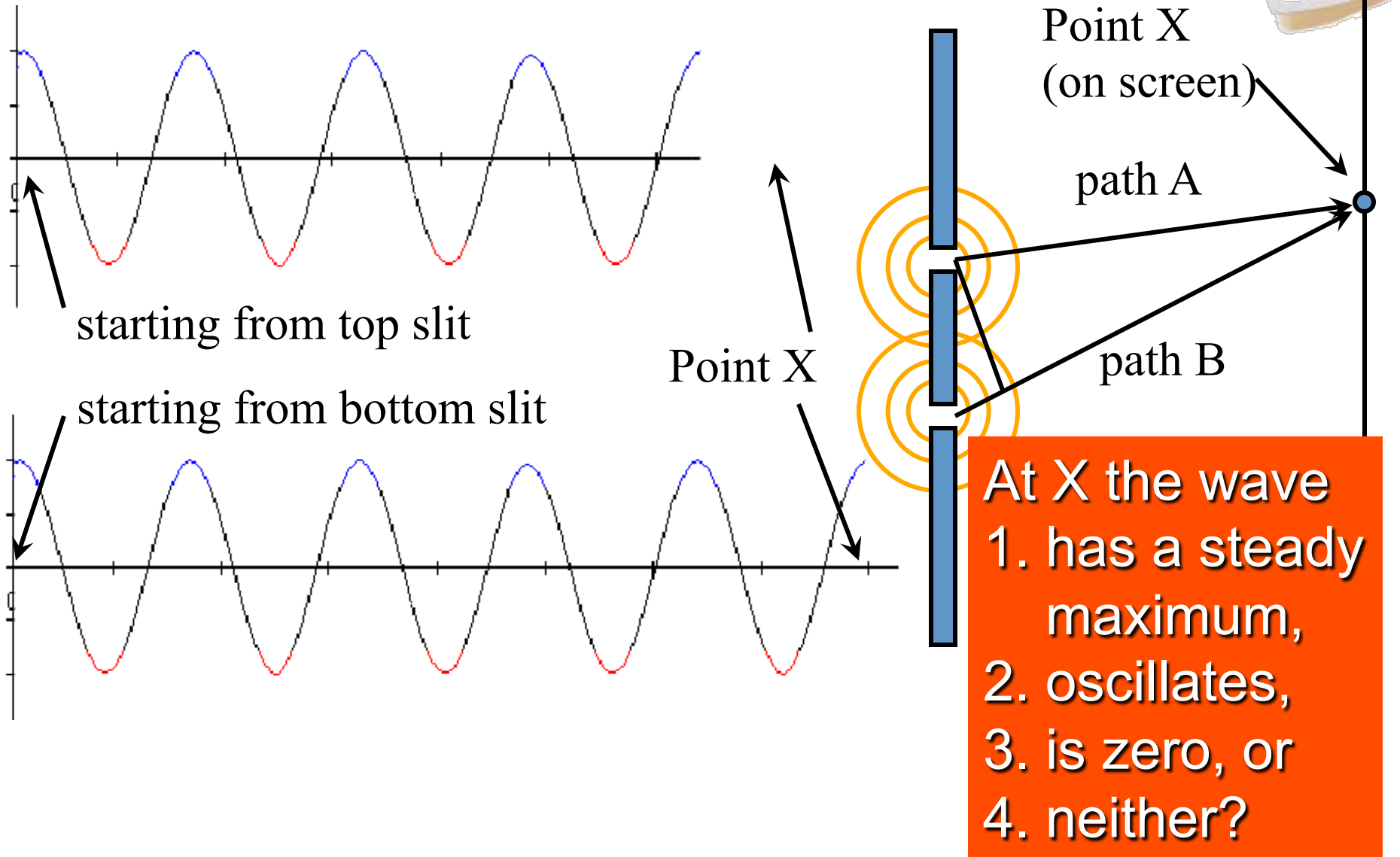
point Y

Following along path B
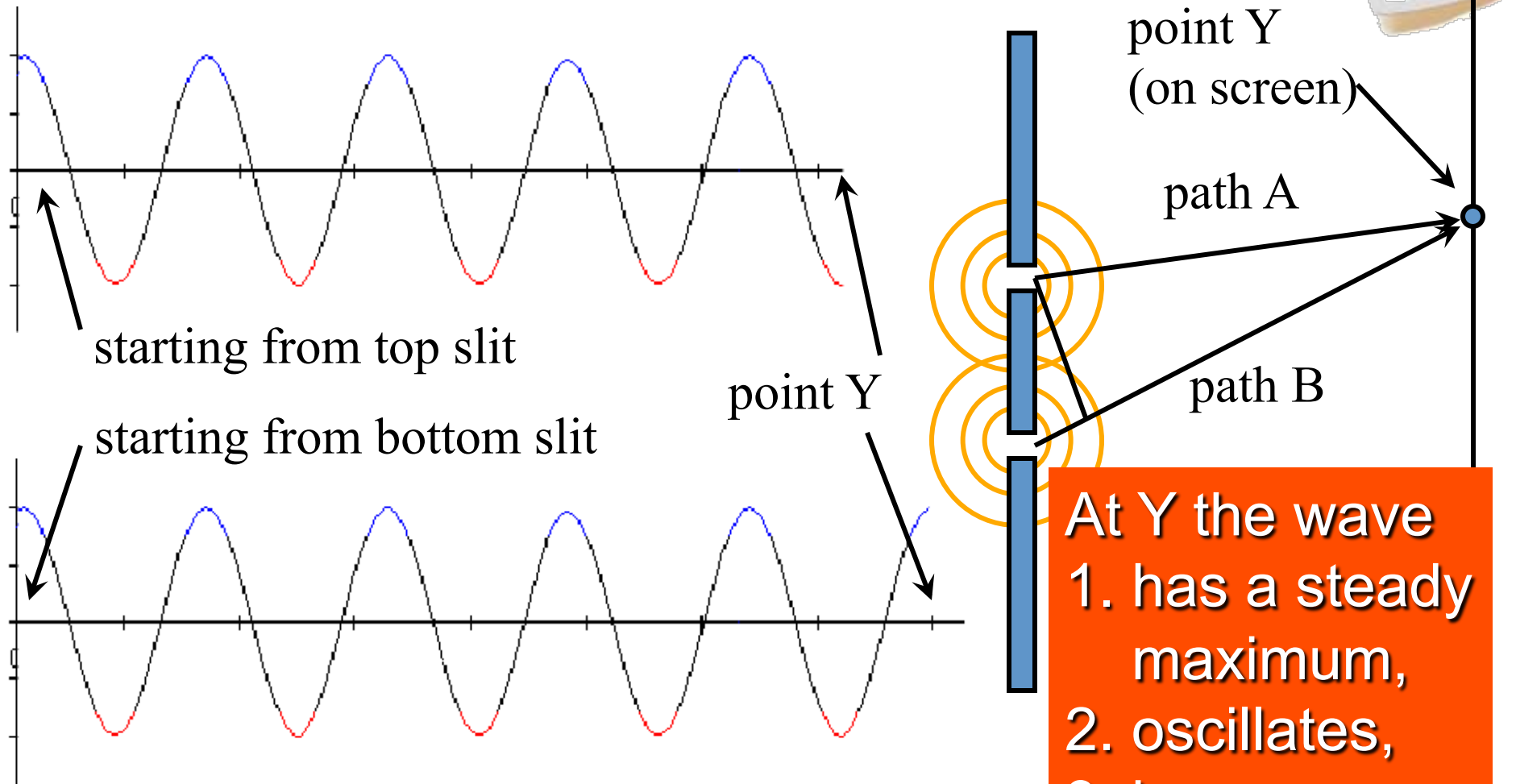at an instant of time

point Y
(on screen)

path A

path B

Is the result
1. a maximum,
2. a minimum,
3. Zero or
4. neither?

At a LATER TIME after the time shown below

starting from top slit

starting from bottom slit

Point X

Point X
(on screen)

path A

path B

At X the wave
1. has a steady
   maximum,
2. oscillates,
3. is zero, or
4. neither?

At a LATER TIME after the time shown below

starting from top slit

starting from bottom slit

point Y

point Y
(on screen)

path A

path B

At Y the wave
1. has a steady
   maximum,
2. oscillates,
3. is zero, or
4. neither?