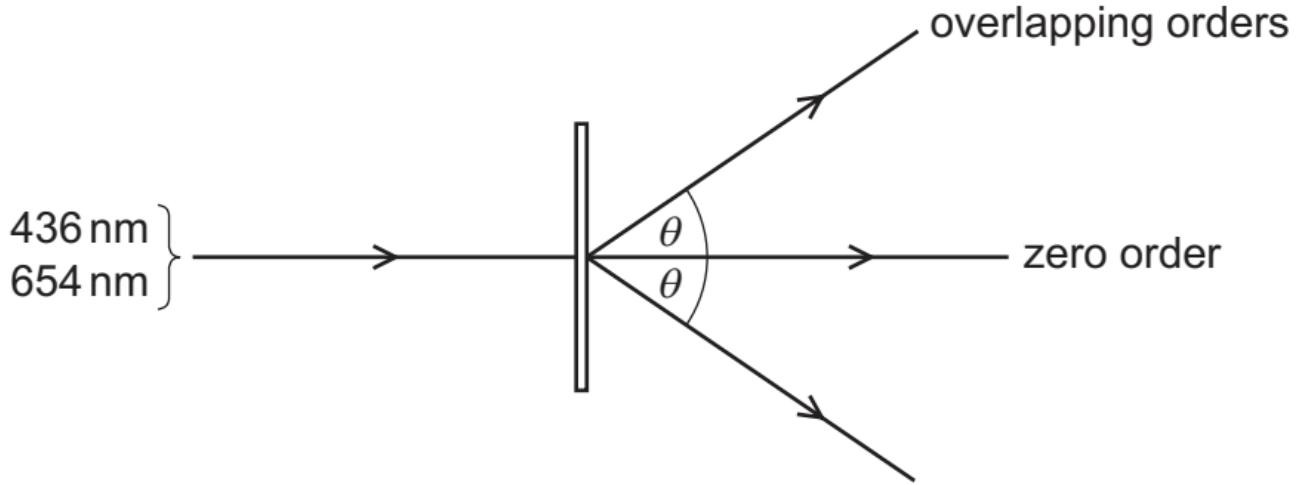


- 29 A beam of light consists of two wavelengths of 436 nm and 654 nm. A diffraction grating of 5.00×10^5 lines m⁻¹ produces a diffraction pattern in which the second order of one of these wavelengths occurs at the same angle θ as the third order of the other wavelength.



What is the angle θ ?

A 19.1°

B 25.8°

C 40.8°

D 78.8°

- 30 Which diagram shows the electric field lines surrounding an isolated negative point charge?