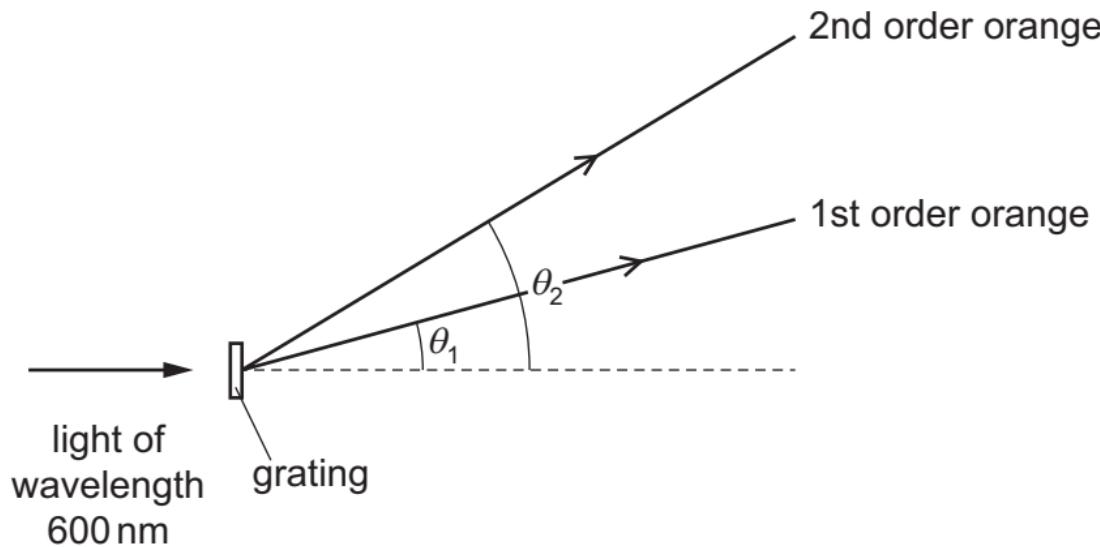


- 29 A diffraction grating experiment is set up using orange light of wavelength 600 nm. The grating has a slit separation of 2.00 μm .



What is the angular separation ($\theta_2 - \theta_1$) between the first and second order maxima of the orange light?

A 17.5°

B 19.4°

C 36.9°

D 54.3°