

- 2** A sky-diver has a mass of 80 kg. The sky-diver attains a terminal velocity of 30 m s^{-1} shortly after stepping out from an aircraft. During this period the sky-diver falls 100 m.

What is the air resistance experienced by the sky-diver when he attains terminal velocity?
 [Take $g = 10 \text{ m s}^{-2}$]