

$$(3) \quad c = 3 \times 10^8 \frac{m}{s} \times \frac{1 \text{ au}}{1.496 \times 10^{11} m} \times \frac{3.156 \times 10^7 s}{1 \text{ au}} = 63\,288.77 \text{ au/auo}$$