



■ 1  $\frac{\sin A}{5} = \frac{\sin B}{6} = \frac{\sin C}{7} = k$  とおくと,

$$\sin A = 5k, \quad \sin B = 6k, \quad \sin C = 7k$$

正弦定理より  $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} = 2R$  だから,

$$a = 2R \sin A = 10kR, \quad b = 2R \sin B = 12kR, \quad c = 2R \sin C = 14kR$$

よって  $a : b : c = 10kR : 12kR : 14kR = 10 : 12 : 14 = 5 : 6 : 7$