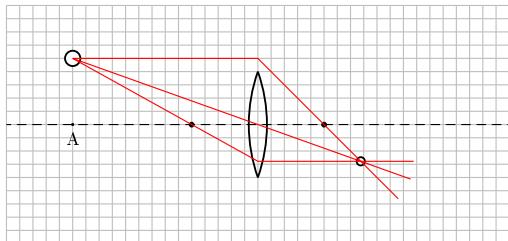


解答

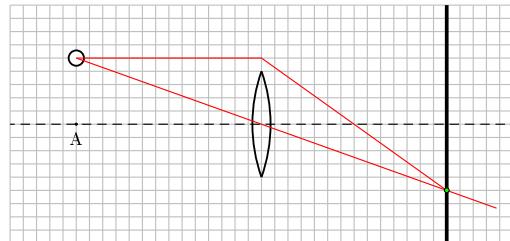
凸レンズ I (1)

- (1) $7\frac{7}{9}$ cm (2) $\frac{5}{9}$ 倍 (3) 1 倍 (4) 7cm
 (1)(2) 参考

(3)(4) 参考



$$(14 - 5) : 5 \text{ から、} 14 \times \frac{5}{14 - 5}_{(2)} = 7\frac{7}{9}_{(1)}$$



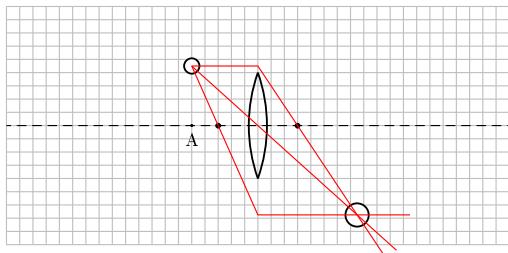
$$14 : 14 \text{ から、} 1 \text{ 倍}_{(3)} \text{ と、} 14 \times \frac{14}{14 + 14} = 7_{(4)}$$

ついたて

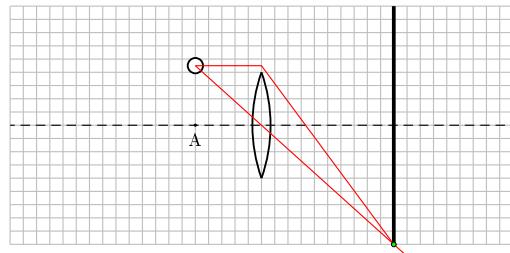
凸レンズ I (2)

- (1) $7\frac{1}{2}$ cm (2) $\frac{3}{2}$ 倍 (3) 2 倍 (4) $3\frac{1}{3}$ cm
 (1)(2) 参考

(3)(4) 参考



$$(5 - 3) : 3 \text{ から、} 5 \times \frac{3}{5 - 3}_{(2)} = 7\frac{1}{2}_{(1)}$$



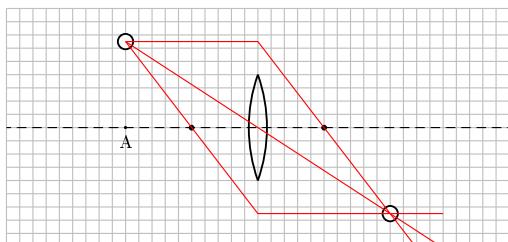
$$5 : 10 \text{ から、} 2 \text{ 倍}_{(3)} \text{ と、} 10 \times \frac{5}{5 + 10} = 3\frac{1}{3}_{(4)}$$

ついたて

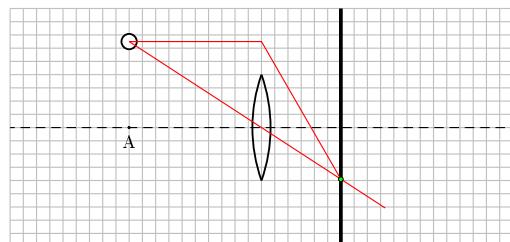
凸レンズ I (3)

- (1) 10cm (2) 1 倍 (3) $\frac{3}{5}$ 倍 (4) $3\frac{3}{4}$ cm
 (1)(2) 参考

(3)(4) 参考



$$(10 - 5) : 5 \text{ から、} 10 \times \frac{5}{10 - 5}_{(2)} = 10_{(1)}$$



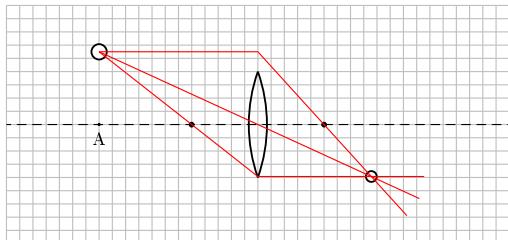
$$10 : 6 \text{ から、} \frac{3}{5} \text{ 倍}_{(3)} \text{ と、} 6 \times \frac{10}{10 + 6} = 3\frac{3}{4}_{(4)}$$

ついたて

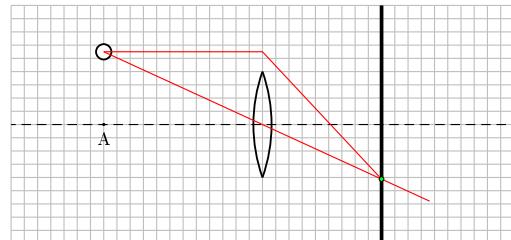
凸レンズ I (4)

(1) $8\frac{4}{7}$ cm (2) $\frac{5}{7}$ 倍 (3) $\frac{3}{4}$ 倍 (4) $5\frac{1}{7}$ cm
 (1)(2) 参考

(3)(4) 参考



$$(12 - 5) : 5 \text{ から、 } 12 \times \frac{5}{12-5}_{(2)} = 8\frac{4}{7}_{(1)}$$

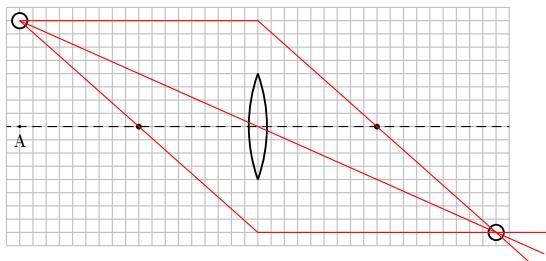


$$12 : 9 \text{ から、} \frac{3}{4} \text{ 倍} \text{ と、} 9 \times \frac{12}{12+9} = 5\frac{1}{7}$$

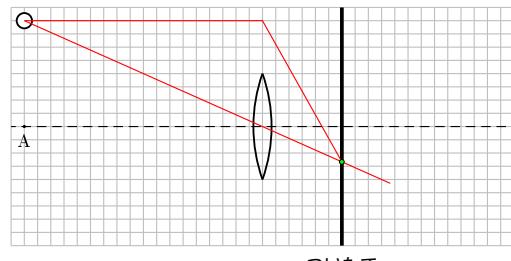
凸レンズ I (5)

(1) 18cm (2) 1 倍 (3) $\frac{1}{3}$ 倍 (4) $4\frac{1}{2}$ cm
 (1)(2) 参考

(3)(4) 参考



$$(18 - 9) : 9 \text{ から、 } 18 \times \frac{9}{\underline{\underline{18 - 9}}^{(2)}} = \underline{\underline{18}}_{(1)}$$

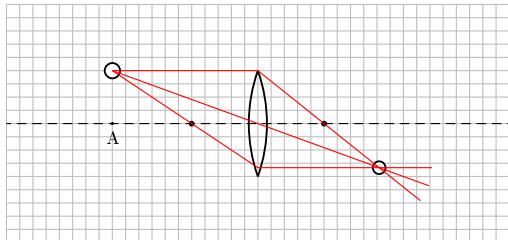


$$18 : 6 \text{ から、} \frac{1}{3} \text{ 倍} \text{ と、} 6 \times \frac{18}{18+6} = 4\frac{1}{2} \quad (4)$$

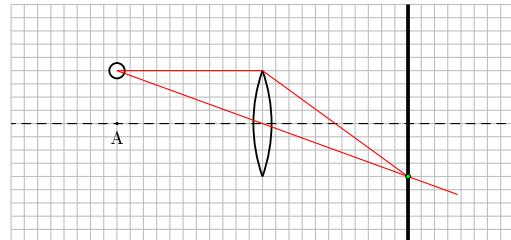
凸レンズ I (6)

(1) $9\frac{1}{6}$ cm (2) $\frac{5}{6}$ 倍 (3) 1 倍 (4) $5\frac{1}{2}$ cm
 (1)(2) 参考

(3)(4) 参考



$$(11 - 5) : 5 \text{ から、} 11 \times \frac{5}{11 - 5}_{(2)} = \frac{9\frac{1}{6}}{(1)}_{(1)}$$

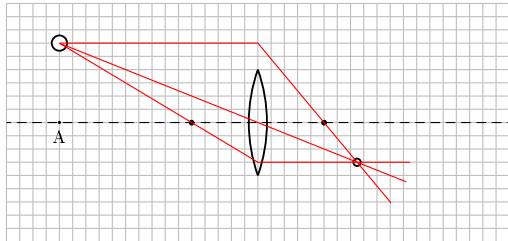


$$11 : 11 \text{ から、} \underline{\text{1倍}}_{(3)} \text{ と、 } 11 \times \frac{11}{11+11} = 5\frac{1}{2} \quad (4)$$

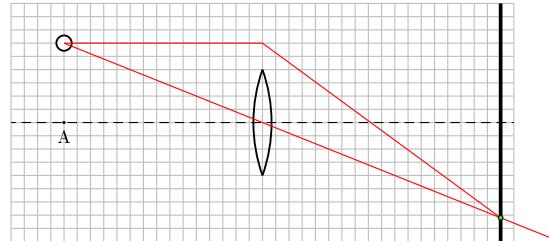
凸レンズ I (7)

(1) $7\frac{1}{2}$ cm (2) $\frac{1}{2}$ 倍 (3) $\frac{6}{5}$ 倍 (4) $8\frac{2}{11}$ cm
 (1)(2) 参考

(3)(4) 参考



$$(15 - 5) : 5 \text{ から、} 15 \times \frac{5}{15 - 5}_{(2)} = 7\frac{1}{2}_{(1)}$$



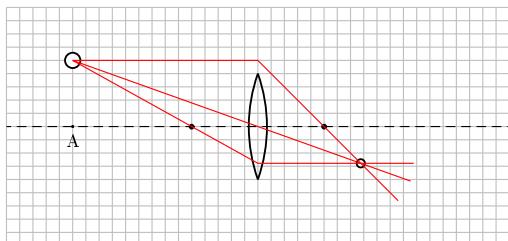
$$15 : 18 \text{ から、} \frac{6}{5}_{(3)} \text{ 倍 と、} 18 \times \frac{15}{15 + 18} = 8\frac{2}{11}_{(4)}$$

ついたて

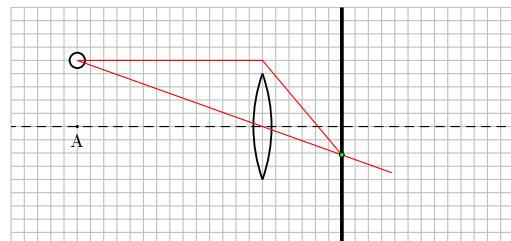
凸レンズ I (8)

(1) $7\frac{7}{9}$ cm (2) $\frac{5}{9}$ 倍 (3) $\frac{3}{7}$ 倍 (4) $4\frac{1}{5}$ cm
 (1)(2) 参考

(3)(4) 参考



$$(14 - 5) : 5 \text{ から、} 14 \times \frac{5}{14 - 5}_{(2)} = 7\frac{7}{9}_{(1)}$$



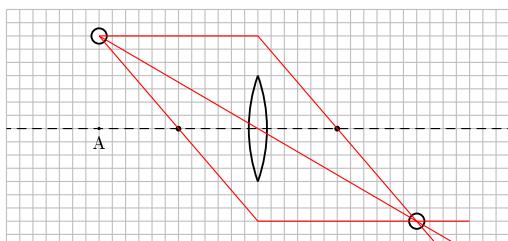
$$14 : 6 \text{ から、} \frac{3}{7}_{(3)} \text{ 倍 と、} 6 \times \frac{14}{14 + 6} = 4\frac{1}{5}_{(4)}$$

ついたて

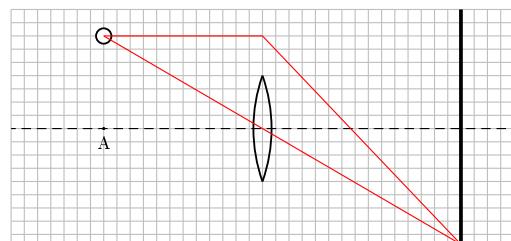
凸レンズ I (9)

(1) 12cm (2) 1 倍 (3) $\frac{5}{4}$ 倍 (4) $6\frac{2}{3}$ cm
 (1)(2) 参考

(3)(4) 参考



$$(12 - 6) : 6 \text{ から、} 12 \times \frac{6}{12 - 6}_{(2)} = 12_{(1)}$$



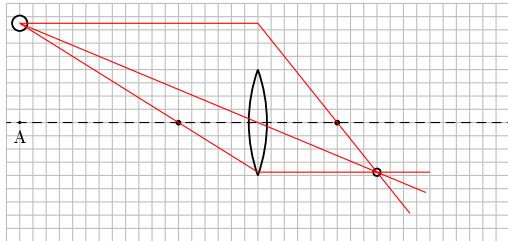
$$12 : 15 \text{ から、} \frac{5}{4}_{(3)} \text{ 倍 と、} 15 \times \frac{12}{12 + 15} = 6\frac{2}{3}_{(4)}$$

ついたて

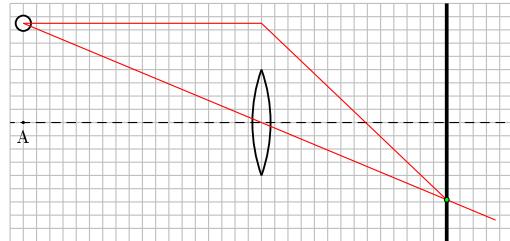
凸レンズ I (10)

(1) 9cm (2) $\frac{1}{2}$ 倍 (3) $\frac{7}{9}$ 倍 (4) $7\frac{7}{8}$ cm
 (1)(2) 参考

(3)(4) 参考



$$(18 - 6) : 6 \text{ から、} 18 \times \frac{6}{18 - 6}_{(2)} = 9_{(1)}$$



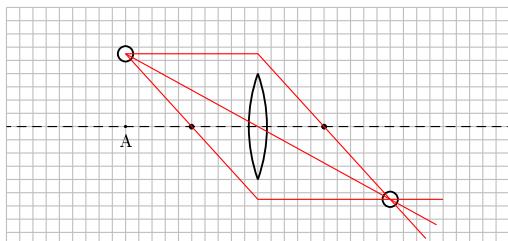
$$18 : 14 \text{ から、} \frac{7}{9} \text{ 倍 と、} 14 \times \frac{18}{18 + 14} = 7\frac{7}{8}_{(4)}$$

ついたて

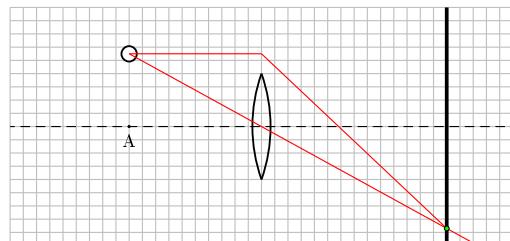
凸レンズ I (11)

(1) 10cm (2) 1 倍 (3) $\frac{7}{5}$ 倍 (4) $5\frac{5}{6}$ cm
 (1)(2) 参考

(3)(4) 参考



$$(10 - 5) : 5 \text{ から、} 10 \times \frac{5}{10 - 5}_{(2)} = 10_{(1)}$$



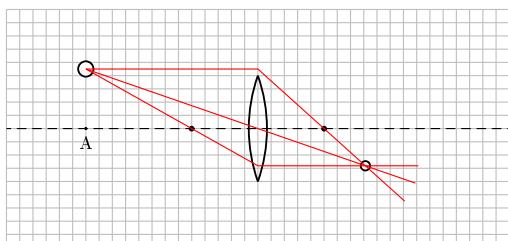
$$10 : 14 \text{ から、} \frac{7}{5} \text{ 倍 と、} 14 \times \frac{10}{10 + 14} = 5\frac{5}{6}_{(4)}$$

ついたて

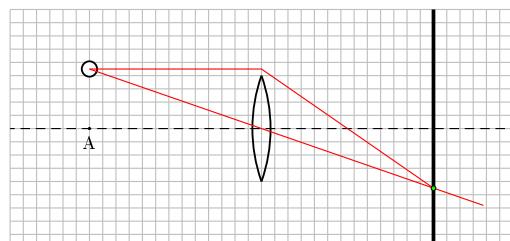
凸レンズ I (12)

(1) $8\frac{1}{8}$ cm (2) $\frac{5}{8}$ 倍 (3) 1 倍 (4) $6\frac{1}{2}$ cm
 (1)(2) 参考

(3)(4) 参考



$$(13 - 5) : 5 \text{ から、} 13 \times \frac{5}{13 - 5}_{(2)} = 8\frac{1}{8}_{(1)}$$



$$13 : 13 \text{ から、} 1 \text{ 倍}_{(3)} \text{ と、} 13 \times \frac{13}{13 + 13} = 6\frac{1}{2}_{(4)}$$

ついたて