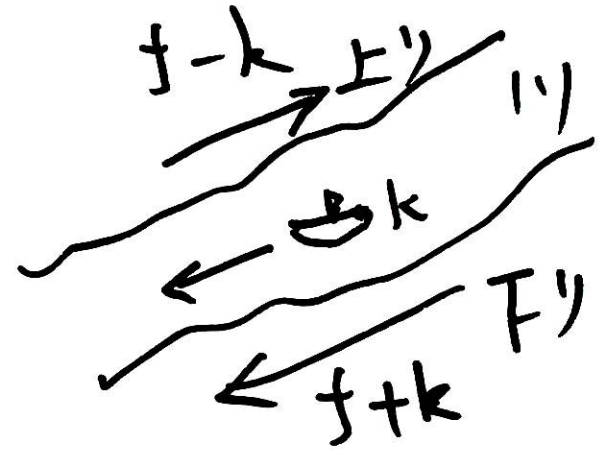


Q5

29B.S1-⑤

川の速さ  $k$   
船の速さ  $f$



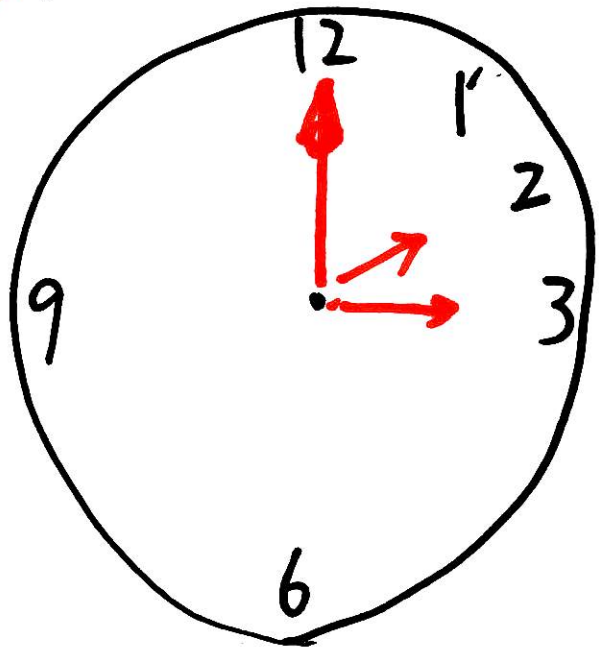
上リ:  $f - k = 12$

下リ:  $f + k = 20$

$2k = 8$   
 $k = 4$  km/h

$2f = 32$   
 $f = 16$  km/h

Q 6<sub>k</sub>



・ 12時を基準, 1分では.

長針:  $360^\circ \div 60 = 6^\circ$

短針:  $30^\circ \div 60 = 0.5^\circ$

X分後の位置.

$$60 + 0.5x = 6x$$

$$x = \frac{120}{11} = 21\frac{10}{11} \text{ (分)}$$

7時→14時

Q

8<sub>k</sub>

9+7=16 人から3人

(10<sub>R</sub>)

選び方:  $16C_3 = \frac{16 \cdot 15 \cdot 14}{3 \cdot 2} = 560$

男のみで3人:  $9C_3 = \frac{9 \cdot 8 \cdot 7}{3 \cdot 2} = 84$

女のみで3人:  $7C_3 = \frac{7 \cdot 6 \cdot 5}{3 \cdot 2} = 35$

$\therefore 560 - 84 - 35 = 441$  通り



Q 9<sub>k</sub>

$$\textcircled{1} 4321 = \textcircled{10} 4 \times 7^3 + 3 \times 7^2 + 2 \times 7^1 + 7^0$$
$$= 4 \times 343 + 3 \cdot 49 + 14 + 1$$
$$= 1534$$

$$\textcircled{6} 1524 = \textcircled{10} 6^3 + 5 \times 6^2 + 2 \times 6^1 + 4$$
$$= 412$$

$$1534 - 412 = 1122$$

$$\begin{array}{r} 5 \overline{) 1122} \\ \underline{55} \phantom{00} \\ 224 \phantom{0} \\ \underline{55} \phantom{00} \\ 44 \phantom{0} \\ \underline{55} \phantom{00} \\ 8 \phantom{0} \\ \underline{55} \phantom{00} \\ 1 \phantom{0} \end{array}$$

$$\textcircled{10} 1122 \Rightarrow \textcircled{5} 13442$$