

数学科 方程式マスター G-②

()組()番 名前()

次の方程式を解きなさい。

$$\textcircled{1} \quad -\frac{5}{2}x+3=\frac{2}{3}x+2$$

$$\textcircled{5} \quad x-\frac{1}{4}=-\frac{5}{8}x+1$$

$$\textcircled{2} \quad -2x-\frac{3}{2}=\frac{1}{4}x+2$$

$$\textcircled{6} \quad \frac{1}{8}x+\frac{1}{6}=\frac{5}{6}x+\frac{1}{6}$$

$$\textcircled{3} \quad \frac{2}{5}x+\frac{3}{5}=\frac{4}{3}x+\frac{3}{5}$$

$$\textcircled{7} \quad -\frac{3}{5}x-3=-\frac{1}{2}x-1$$

$$\textcircled{4} \quad \frac{2}{5}x+4=\frac{1}{5}x+5$$

数学科 方程式マスター G-②

()組()番 名前()

次の方程式を解きなさい。

① $-\frac{5}{2}x+3=\frac{2}{3}x+2$

$6(-\frac{5}{2}x+3)=6(\frac{2}{3}x+2)$

$3x(-\frac{5}{2}x)+18=2x\frac{2}{3}x+12$

$-15x+18=4x+12$

$-15x-4x=-18+12$

$-19x=-6$

$-19x \div (-19) = -6 \div (-19)$
 $x = \frac{6}{19} \#$

② $-2x-\frac{3}{2}=\frac{1}{4}x+2$

$4(-2x-\frac{3}{2})=4(\frac{1}{4}x+2)$

$-8x+4(-\frac{3}{2})=4 \times \frac{1}{4}x+8$

$-8x-6=x+8$

$-8x-x=6+8$

$-9x=14$

$-9x \div (-9) = 14 \div (-9)$
 $x = -\frac{14}{9} \#$

③ $\frac{2}{5}x+\frac{3}{5}=\frac{4}{3}x+\frac{3}{5}$

$15(\frac{2}{5}x+\frac{3}{5})=15(\frac{4}{3}x+\frac{3}{5})$

$3 \times 2 \times \frac{2}{5}x + 3 \times 3 \times \frac{3}{5} = 5 \times 4 \times \frac{4}{3}x + 3 \times 3 \times \frac{3}{5}$

$6x+9=20x+9$

$6x-20x=-9+9$

$-14x=0$

$x=0 \#$

④ $\frac{2}{5}x+4=\frac{1}{5}x+5$

$5(\frac{2}{5}x+4)=5(\frac{1}{5}x+5)$

$5 \times \frac{2}{5}x + 20 = 5 \times \frac{1}{5}x + 25$

$2x+20=x+25$

$2x-x=-20+25$

$x=5 \#$

⑤ $x-\frac{1}{4}=-\frac{5}{8}x+1$

$8(x-\frac{1}{4})=8(-\frac{5}{8}x+1)$

$8x+8(-\frac{1}{4})=8 \times (-\frac{5}{8}x)+8$

$8x-2=-5x+8$

$8x+5x=2+8$

$13x=10$

$13x \div 13 = 10 \div 13$
 $x = \frac{10}{13} \#$

⑥ $\frac{1}{8}x+\frac{1}{6}=\frac{5}{6}x+\frac{1}{6}$

$24(\frac{1}{8}x+\frac{1}{6})=24(\frac{5}{6}x+\frac{1}{6})$

$3 \times 1 \times \frac{1}{8}x + 4 \times \frac{1}{6} = 4 \times 5 \times \frac{5}{6}x + 4 \times \frac{1}{6}$

$3x+4=20x+4$

$3x-20x=-4+4$

$-17x=0$

$x=0 \#$

⑦ $-\frac{3}{5}x-3=-\frac{1}{2}x-1$

$10(-\frac{3}{5}x-3)=10(-\frac{1}{2}x-1)$

$2 \times (-3) \times x - 30 = 5 \times (-\frac{1}{2}x) - 10$

$-6x-30=-5x-10$

$-6x+5x=30-10$

$-x=20$

$x=-20 \#$