

1 次の方程式を解きなさい。

$$\textcircled{1} \quad \frac{8x+2}{6} = \frac{5x+2}{4}$$

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

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

$$\textcircled{4} \quad \frac{2}{5}x+2 = \frac{1}{6}x+9$$

$$\textcircled{5} \quad \frac{8x+2}{5} = \frac{3x+1}{2}$$

$$\textcircled{6} \quad \frac{3}{4}x+3 = \frac{2}{3}x+4$$

1 次の方程式を解きなさい。

$$\textcircled{1} \quad \frac{8x+2}{6} = \frac{5x+2}{4}$$

$$\left(\frac{8x+2}{\cancel{6}_1}\right) \times \overset{2}{12} = \left(\frac{5x+2}{\cancel{4}_1}\right) \times \overset{3}{12}$$

$$16x+4=15x+6$$

$$16x-15x=6-4$$

$$x=2$$

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

$$\left(\frac{1}{2}x+2\right) \times 10 = \left(\frac{1}{5}x+5\right) \times 10$$

$$5x+20=2x+50$$

$$5x-2x=50-20$$

$$3x=30$$

$$x=10$$

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

$$\left(\frac{3x+3}{\cancel{2}_1}\right) \times \overset{3}{6} = \left(\frac{5x+2}{\cancel{3}_1}\right) \times \overset{2}{6}$$

$$9x+9=10x+4$$

$$9x-10x=4-9$$

$$-x=-5$$

$$x=5$$

$$\textcircled{4} \quad \frac{2}{5}x+2 = \frac{1}{6}x+9$$

$$\left(\frac{2}{5}x+2\right) \times 30 = \left(\frac{1}{6}x+9\right) \times 30$$

$$12x+60=5x+270$$

$$12x-5x=270-60$$

$$7x=210$$

$$x=30$$

$$\textcircled{5} \quad \frac{8x+2}{5} = \frac{3x+1}{2}$$

$$\left(\frac{8x+2}{\cancel{5}_1}\right) \times \overset{2}{10} = \left(\frac{3x+1}{\cancel{2}_1}\right) \times \overset{5}{10}$$

$$16x+4=15x+5$$

$$16x-15x=5-4$$

$$x=1$$

$$\textcircled{6} \quad \frac{3}{4}x+3 = \frac{2}{3}x+4$$

$$\left(\frac{3}{4}x+3\right) \times 12 = \left(\frac{2}{3}x+4\right) \times 12$$

$$9x+36=8x+48$$

$$9x-8x=48-36$$

$$x=12$$