

## 16-02-04-T7-Equations

Solve each equation.

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

$$2) \frac{1}{3}\left(\frac{1}{2}p - \frac{7}{2}\right) = -\frac{3}{2}\left(\frac{1}{2}p + 1\right)$$

$$3) -\frac{3}{2}\left(\frac{5}{3}n - \frac{7}{3}\right) = \frac{3}{2}\left(n - \frac{7}{2}\right) + 1$$

$$4) -\frac{4}{3}\left(v - \frac{5}{2}\right) - \frac{1}{2}v = -\frac{5}{2}\left(v - \frac{4}{3}\right)$$

$$5) 3\left(x - \frac{11}{3}\right) - \frac{3}{2}x = -2\left(x + \frac{1}{2}\right) - \frac{3}{2}$$

$$6) -2\left(\frac{8}{3}a + \frac{2}{3}\right) - 2a = -2\left(\frac{1}{3}a + 1\right)$$

$$7) -\frac{8}{3}\left(m + \frac{1}{2}\right) = \frac{8}{3}\left(\frac{1}{2}m + \frac{5}{3}\right)$$

$$8) \frac{5}{2}\left(\frac{5}{2}x + \frac{2}{3}\right) = -\frac{5}{2}\left(\frac{8}{3}x - \frac{3}{2}\right)$$

$$9) -\left(\frac{7}{3}v - \frac{3}{2}\right) + \frac{1}{2}v = -\frac{5}{3}\left(-\frac{1}{2}v + 1\right) - 2$$

$$10) -\frac{7}{2} + 2\left(3n + \frac{3}{2}\right) = \frac{1}{3}n + 2\left(\frac{5}{3}n - \frac{11}{3}\right)$$

## Answers to 16-02-04-T7-Equations

1)  $\left\{-\frac{5}{6}\right\}$

2)  $\left\{-\frac{4}{11}\right\}$

3)  $\left\{\frac{31}{16}\right\}$

4)  $\{0\}$

5)  $\left\{\frac{17}{7}\right\}$

6)  $\left\{\frac{1}{10}\right\}$

7)  $\left\{-\frac{13}{9}\right\}$

8)  $\left\{\frac{5}{31}\right\}$

9)  $\left\{\frac{31}{16}\right\}$

10)  $\left\{-\frac{41}{14}\right\}$