

Solve each equation.

1) $3\left(-\frac{1}{3}m + \frac{1}{2}\right) = \frac{4}{3}\left(\frac{3}{2}m + 1\right)$

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

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

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

5) $-\frac{1}{2}\left(-\frac{10}{3}x + 2\right) + 2 = 2\left(-\frac{7}{3}x + \frac{4}{3}\right)$

6) $\frac{1}{2}b + 1 - \frac{7}{2}b - \frac{4}{3} = -\frac{10}{3}\left(b + \frac{5}{2}\right) + \frac{3}{2}\left(\frac{8}{3}b + \frac{5}{3}\right)$

7) $-\frac{3}{2}r + \frac{7}{3}\left(\frac{1}{3}r - \frac{1}{3}\right) = -\frac{1}{2}\left(\frac{4}{3}r + \frac{1}{2}\right)$

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

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

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

Answers to 16-02-10-T7

1) $\left\{\frac{1}{18}\right\}$

2) $\left\{-\frac{7}{30}\right\}$

3) $\{-31\}$

4) $\{-1\}$

5) $\left\{\frac{5}{19}\right\}$

6) $\left\{\frac{3}{2}\right\}$

7) $\left\{-\frac{19}{2}\right\}$

8) $\left\{\frac{8}{11}\right\}$

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

10) $\left\{\frac{11}{2}\right\}$