

Name: .....

# Linear Equations Worksheet

Solve the equations

①  $\frac{x}{3} - \frac{3x}{4} = \frac{1}{12}$

②  $8 = 2(x - 5) + 6x$

③  $\frac{3x + 5}{2} = \frac{1}{4}$

④  $4n - 40 = 7(-2n + 2)$

⑤  $3a - (-1) = -5$

⑥  $-2b - (-7) = 11$

⑦  $2x + 6 = 3x + 9 - 3$

⑧  $2 = 7(x + 4) + 9x$

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## Answers

$$\textcircled{1} \quad \frac{x}{3} - \frac{3x}{4} = \frac{1}{12}$$

$$\underline{x = -\frac{1}{5}}$$

$$\textcircled{3} \quad \frac{3x+5}{2} = \frac{1}{4}$$

$$\underline{x = \frac{3}{2}}$$

$$\textcircled{5} \quad 3a - (-1) = -5$$

$$\underline{a = -2}$$

$$\textcircled{7} \quad 2x + 6 = 3x + 9 - 3$$

$$\underline{x = 0}$$

$$\textcircled{2} \quad 8 = 2(x - 5) + 6x$$

$$\underline{x = \frac{9}{4}}$$

$$\textcircled{4} \quad 4n - 40 = 7(-2n + 2)$$

$$\underline{n = 3}$$

$$\textcircled{6} \quad -2b - (-7) = 11$$

$$\underline{b = -2}$$

$$\textcircled{8} \quad 2 = 7(x + 4) + 9x$$

$$\underline{x = -\frac{13}{8}}$$