

S. 92

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$$\begin{aligned}
 \text{a)} \quad 4x + 3 &= 2x - 1 && \parallel -2x \\
 4x + 3 - 2x &= 2x - 1 - 2x && \\
 2x + 3 &= -1 && \parallel -3 \\
 2x + 3 - 3 &= -1 - 3 && \\
 \frac{2x}{2} &= \frac{-4}{2} && \parallel :2 \\
 x &= -2
 \end{aligned}$$

$$\begin{aligned}
 \text{b)} \quad \cancel{6^x x} + 2 &= \cancel{5^0 x} + 6 && \parallel -5x \\
 x + \cancel{2^0} &= \cancel{6^4} && \parallel -2 \\
 x &= 4
 \end{aligned}$$

$$\begin{aligned}
 \text{c)} \quad \cancel{9^{2x} x} + 4 &= \cancel{7^0 x} + 8 && \parallel -7x \\
 2x + \cancel{4^0} &= \cancel{8^4} && \parallel -4 \\
 \frac{2x}{2} &= \frac{4}{2} && \parallel :2 \\
 x &= 2
 \end{aligned}$$

$$\begin{aligned}
 \text{d)} \quad \cancel{12^{6x} x} + 5 &= \cancel{6^0 x} + 11 && \parallel -6x \\
 6x + \cancel{5^0} &= \cancel{11^6} && \parallel -5 \\
 \frac{6x}{6} &= \frac{6}{6} && \parallel :6 \\
 x &= 1
 \end{aligned}$$

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a)

$$\begin{aligned} \overset{-2x}{\cancel{5x}} &= \overset{0}{\cancel{7x}} - 6 \\ \frac{-2x}{-2} &= \frac{-6}{-2} \end{aligned}$$

$\parallel -7x$

$\parallel :(-2)$

$$x = 3$$

b)

$$\begin{aligned} \overset{-x}{\cancel{4x}} &= \overset{0}{\cancel{5x}} + 9 \\ \frac{-x}{-1} &= \frac{9}{-1} \end{aligned}$$

$\parallel -5x$

$\parallel :(-1)$

$$x = -9$$

c)

$$\overset{2y}{\cancel{7y}} - 5 = \overset{0}{\cancel{5y}} - 5$$

$\parallel -5y$

$$2y - \overset{0}{\cancel{5}} = \overset{0}{\cancel{-5}}$$

$\parallel +5$

$$\frac{2y}{2} = \frac{0}{2}$$

$\parallel :2$

$$y = 0$$

d)

$$\overset{-3x}{\cancel{3x}} + 6 = \overset{0}{\cancel{6x}} - 12$$

$\parallel -6x$

$$-3x + \overset{0}{\cancel{6}} = \overset{-18}{\cancel{-12}}$$

$\parallel -6$

$$\frac{-3x}{-3} = \frac{-18}{-3}$$

$\parallel :(-3)$

$$x = 6$$