

(m) $3x - (2x + 8) = 4(5x - 9) + 2$

$3x - 2x - 8 = 20x - 36 + 2$

$x - 8 = 20x - 34$

$\begin{array}{r} -x \\ \hline -8 = 19x - 34 \end{array}$

$-8 = 19x - 34$

$\begin{array}{r} +34 \\ \hline 26 = 19x \end{array}$

$\frac{26}{19} = \frac{19x}{19}$

$\frac{17}{19} = x$

$1\frac{7}{19} = x$

$14x - 80 = 403x + 502$

$\begin{array}{r} -14x \\ \hline -80 = 389x + 502 \end{array}$

$-80 = 389x + 502$

$\begin{array}{r} -502 \\ \hline -582 = 389x \end{array}$

$-582 = 389x$

$\frac{-582}{389} = x$

$\frac{-582}{389} = x$

(n) $3(2d - 7) - (8 - 8d) - 4d + 9 = 2 - (2 - 7d) - 4d$

$6d - 21 - 8 + 8d - 4d + 9 = 2 - 2 + 7d - 4d$

$10d - 20 = 3d$

$\begin{array}{r} -10d \\ \hline -20 = -7d \end{array}$

$\frac{-20}{-7} = \frac{-7d}{-7} \quad d = 2\frac{10}{7}$

$\frac{-20}{-7} = \frac{-7d}{-7}$

$\frac{-20}{-7} = \frac{-7d}{-7}$

$5(2 - 7x) + 13x = 4x - 8 - (5x - 8)$

$10 - 35x + 13x = 4x - 8 - 5x + 8$

$10 - 22x = -x$

$\begin{array}{r} +22x \\ \hline 10 = 21x \end{array}$

$\frac{10}{21} = \frac{21x}{21}$

$\frac{10}{21} = \frac{21x}{21}$

$\frac{10}{21} = x$

(o) $8t + 7(2t - 7) - 5t + 9 = 21 - (2t - 7) - 10t$

$8t + 14t - 49 - 5t + 9 = 21 - 2t + 7 - 10t$

$17t - 40 = 28 - 12t$

$\begin{array}{r} +12t \\ \hline 29t - 40 = 28 \end{array}$

$29t - 40 = 28$

$\begin{array}{r} +40 \\ \hline 29t = 68 \end{array}$

$\frac{29t}{29} = \frac{68}{29}$

$\frac{29t}{29} = \frac{68}{29}$

$t = 2\frac{10}{29}$

$4(2z - 8) - (z - 9) = 8(8 - 7z)$

$8z - 32 - z + 9 = 64 - 56z$

$7z - 23 = 64 - 56z$

$\begin{array}{r} +56z \\ \hline 63z - 23 = 64 \end{array}$

$63z - 23 = 64$

$\begin{array}{r} +23 \\ \hline 63z = 87 \end{array}$

$\frac{63z}{63} = \frac{87}{63}$

$\frac{63z}{63} = \frac{87}{63}$

$z = 1\frac{8}{21}$

(p) $3 - 7[2 + 3(2x + 8)] = 7 - (3x - 9)$

$3 - 7[2 + 6x + 24] = 7 - 3x + 9$

$3 - 7[6x + 26] = 16 - 3x$

$3 - 42x - 182 = 16 - 3x$

$-42x - 179 = 16 - 3x$

$\begin{array}{r} +42x \\ \hline -179 = 16 - 3x \end{array}$

$-179 = 16 - 3x$

$\begin{array}{r} -16 \\ \hline 195 = 39x \end{array}$

$\frac{195}{39} = \frac{39x}{39}$

$\frac{195}{39} = \frac{39x}{39}$

$5 = x$

$5\{2 - [3b - 5(2b - 9)]\} = 3b - 10$

$5\{2 - [3b - 10b + 45]\} = 3b - 10$

$5\{2 - [-7b + 45]\} = 3b - 10$

$5\{2 + 7b - 45\} = 3b - 10$

$5\{7b - 43\} = 3b - 10$

$35b - 215 = 3b - 10$

$\begin{array}{r} -3b \\ \hline 32b - 215 = -10 \end{array}$

$32b - 215 = -10$

$\begin{array}{r} +215 \\ \hline 32b = 205 \end{array}$

$\frac{32b}{32} = \frac{205}{32}$

$\frac{32b}{32} = \frac{205}{32}$

$b = 6\frac{13}{32}$