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① $x^4 \times x^6 \times x$
 $= x^{10}$

② $2x^2 \times 3x^3 \times 2x$
 $= 12x^5$

③ $\frac{x^4 \times x^5 \times x^2}{x^9}$
 $= x$

④ $(3x^2)^3$
 $= 9x^6$

⑤ $\sqrt{x} \times \sqrt{x}$
 $= x^2$

① $15x - 2 = 12x + 9$
 $15x - 12 = 2 + 9$
 $3x = 11$
 $x = \frac{11}{3}$

② $3(7 - 1) = 6(x + 3)$
 $21x - 3 = 6x + 18$
 $21x - 6x = 3 + 18$
 $15x = 21$
 $x = \frac{21}{15}$

③ $\frac{5x + 3}{4} = \frac{2x - 1}{9}$
 $9(5x + 3) = 4(2x - 1)$
 $45x + 27 = 8x - 4$
 $45x - 8x = -27 - 4$
 $37x = -31$
 $x = \frac{-31}{37}$