KM **K**im's **M**aths	Stage 30	www.cyberschool.co.kr

☺ *Solve.*

(1) $2^x + 5 = 9$

(2) $3^x + 7 = 34$

(3) $6^x + 30 = 66$

(4) $25^x + 10 = 135$

(5) $4^x + 22 = 54$

☺ *Solve.*

(6) $2 \times 2^x + 3 \times 2^x = 20$

(7) $4 \times 3^x + 5 \times 3^x = 243$

(8) $3 \times 4^x + 6 \times 4^x = 72$

(9) $5 \times 5^x + 2 \times 5^x = 175$

(10) $2 \times 3^x + 2 \times 3^x = 36$

☺ *Solve.*

(11) $2 \times 5^{2x-1} + 3 \times 5^{2x-1} = 125$

(12) $3 \times 3^{3x+1} + 4 \times 3^{3x+1} = 63$

(13) $5 \times 4^{x+3} + 4 \times 4^{x+3} = 72$

(14) $7 \times 5^{3x-2} + 4 \times 5^{3x-2} = 55$

(15) $6 \times 7^{5x-3} + 2 \times 7^{5x-3} = 56$

☺ *Solve.*

(16) $2^x - 7 = 25$

(17) $5^x - 3 = 22$

(18) $3 \times 4^x - 15 = 9$

(19) $2 \times 3^x - 19 = 35$

(20) $5 \times 8^x - 22 = 58$

☺ *Solve.*

(21) $5 \times 2^x - 3 \times 2^x = 64$

(22) $10 \times 3^x - 2 \times 3^x = 72$

(23) $5 \times 4^x - 4 \times 4^x = 32$

(24) $7 \times 5^x - 4 \times 5^x = 75$

(25) $6 \times 7^x - 2 \times 7^x = 28$

☺ *Solve.*

(26) $5 \times 5^{2x-1} - 3 \times 5^{2x-1} = 50$

(27) $7 \times 3^{3x+1} - 3 \times 3^{3x+1} = 36$

(28) $5 \times 4^{x+3} - 2 \times 4^{x+3} = 48$

(29) $6 \times 5^{3x-2} - 2 \times 5^{3x-2} = 100$

(30) $8 \times 7^{5x-3} - 6 \times 7^{5x-3} = 98$

☺ *Solve.*

(31) $(2^x)^2 - 6 \times 2^x + 8 = 0$

(32) $(3^x)^2 - 10 \times 3^x + 9 = 0$

(33) $(4^x)^2 - 12 \times 4^x + 32 = 0$

(34) $7^x + 49 \times 7^{-x} - 50 = 0$

(35) $3^x + 9 \times 3^{-x} = 6$

☺ *Solve.*

(36) $4^x - 10 \times 2^x + 16 = 0$

(37) $9^x - 12 \times 3^x + 27 = 0$

(38) $16^x - 12 \times 4^x + 32 = 0$

(39) $25^x - 6 \times 5^x + 5 = 0$

(40) $36^x - 42 \times 6^x + 216 = 0$