Task card 1 Solving Exponential & Log Equation...

Solve: $8(6)^x = 248$

Task card 2 Solving Exponential & Log Equation...

Solve: $2^{x-1} = 292$

Task card 3 Solving Exponential & Log Equation...

Solve: $e^{3x} = 5$

Task card 4 Solving Exponential & Log Equation...

Solve: $\log_3(x) + \log_3(x - 8) = 2$

Task card 5 Solving Exponential & Log Equation...

Solve: $2e^{3x} - 3 = 39$

Task card 6 Solving Exponential & Log Equation...

Solve: $\ln(5x - 5) = 2$

Task card 7 Solving Exponential & Log Equation...

Solve: $\log_5(x) + \log_5(x - 20) = 3$

Task card 8 Solving Exponential & Log Equation...

Solve: $6e^{x/2} - 3 = 69$

Task card 9 Solving Exponential & Log Equation...

Solve: $6(6)^x = 354$

Task card 10 Solving Exponential & Log Equation...

Solve: $6^{x+3} = 107$

Task card 11 Solving Exponential & Log Equation...

Solve: $e^{-x} = 0.5$

Task card 12 Solving Exponential & Log Equation...

Solve: $\log_2(x) + \log_2(x - 15) = 4$

Task card 13 Solving Exponential & Log Equation...

Solve: $3e^{x/2} - 8 = 7$

Task card 14 Solving Exponential & Log Equation...

Solve: $\ln(3x - 1) = 1$

Task card 15 Solving Exponential & Log Equation...

Solve: $\log_2(x) + \log_2(x - 7) = 3$

Task card 16 Solving Exponential & Log Equation...

Solve: $2e^{3x} + 4 = 28$

Task card 17 Solving Exponential & Log Equation...

Solve: $8(3)^x = 152$

Task card 18 Solving Exponential & Log Equation...

Solve: $4^{x-1} = 30$

Task card 19 Solving Exponential & Log Equation...

Solve: $e^{4x} = 2$

Task card 20 Solving Exponential & Log Equation...

Solve: $2e^{3x} - 8 = 12$

Task card 21 Solving Exponential & Log Equation...

Solve: $\ln(3x + 1) = 1$

Task card 22 Solving Exponential & Log Equation...

Solve: $3e^{2x} + 4 = 34$

Task card 23 Solving Exponential & Log Equation...

Solve: $5(7)^x = 135$

Task card 24 Solving Exponential & Log Equation...

Solve: $7^{x-3} = 288$

Solving Exponential & Log Equations with Logarithms Task Cards

Recording sheet · Grade 11 · Solve for x. Round to the nearest hundredth unless the answer is a whole number.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Solving Exponential & Log Equations with Logarithms Task Cards: Answer Key

Grade 11 · Hard

The answers online

1. x = 1.92	**2.** x = 9.19	**3.** x = 0.54
4. x = 9	**5.** x = 1.01	**6.** x = 2.48
7. x = 25	**8.** x = 4.97	**9.** x = 2.28
10. x = -0.39	**11.** x = 0.69	**12.** x = 16
13. x = 3.22	**14.** x = 1.24	**15.** x = 8
16. x = 0.83	**17.** x = 2.68	**18.** x = 3.45
19. x = 0.17	**20.** x = 0.77	**21.** x = 0.57
22. x = 1.15	**23.** x = 1.69	**24.** x = 5.91