

Equations with e

Name _____

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Date _____

Solve each equation. Round your answers to the nearest ten-thousandth.

1) $e^{n-2} - 6 = -4$

2) $e^{-10x} - 10 = 45$

3) $e^{7m} - 8 = 56$

4) $e^{-10x} - 8 = 48$

5) $e^{5n} - 7 = 87$

6) $-5e^{m+2} = -87$

7) $10e^{n-4} = 29$

8) $e^{x+3} - 9 = 8$

9) $-8.1e^{x-8} = -83.2$

10) $-5e^{10n} = -62$

11) $6e^{2m} = 19$

12) $e^{9p} + 9 = 96$

13) $e^{-5n} + 4 = 53$

14) $e^{-5k} - 6 = 57$

15) $e^{5n} + 9 = 54$

16) $e^{r-10} + 1 = 50$

17) $e^{8v} + 8 = 42$

18) $e^{n-9} + 2 = 58$

19) $e^{x+2} - 3 = 66$

20) $-5e^{10n} = -84$

Answers to Equations with e

- | | | | |
|-------------|-------------|------------|-------------|
| 1) 2.6931 | 2) -0.4007 | 3) 0.5941 | 4) -0.4025 |
| 5) 0.9087 | 6) 0.8565 | 7) 5.0647 | 8) -0.1668 |
| 9) 10.3294 | 10) 0.2518 | 11) 0.5763 | 12) 0.4962 |
| 13) -0.7784 | 14) -0.8286 | 15) 0.7613 | 16) 13.8918 |
| 17) 0.4408 | 18) 13.0254 | 19) 2.2341 | 20) 0.2821 |