

Equations with e

Name _____

© 2017 Kuta Software LLC. All rights reserved.

Date _____

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

1) $-10e^{x+3} = -59$

2) $-5e^{-5p} = -88$

3) $2e^{7v} = 35$

4) $-5e^{p-3} = -13$

5) $-9e^{n+8} = -54$

6) $e^{b-10} + 1 = 18$

7) $4e^{a-8} = 72$

8) $e^{10a} - 6 = 27$

9) $e^{6x} + 8 = 87$

10) $e^{-3.2x} - 2 = 72$

$$11) -3e^{-9a} = -29$$

$$12) -5e^{2v} = -50$$

$$13) e^{n-2} - 5 = 23$$

$$14) e^{p-7} + 2 = 7$$

$$15) e^{2.4v} - 4 = 10.5$$

$$16) 2e^{r-1} = 18$$

$$17) e^{m-7} + 1 = 39$$

$$18) -e^{-2m} = -72$$

$$19) e^{-4n} + 9 = 39$$

$$20) e^{-10a} - 4 = 84$$

Answers to Equations with e

- | | | | |
|-------------|-------------|-------------|-------------|
| 1) -1.225 | 2) -0.5736 | 3) 0.4089 | 4) 3.9555 |
| 5) -6.2082 | 6) 12.8332 | 7) 10.8904 | 8) 0.3497 |
| 9) 0.7282 | 10) -1.345 | 11) -0.2521 | 12) 1.1513 |
| 13) 5.3322 | 14) 8.6094 | 15) 1.1142 | 16) 3.1972 |
| 17) 10.6376 | 18) -2.1383 | 19) -0.8503 | 20) -0.4477 |