Name:

Date:

Solving Exponential Equations Requiring

Solve each equation.

1) $3^b = 17$

2) $12^r = 15$

3) $6^n = 99$

4) $2.18^{6x} = 26$

5) $11^{n-5} + 8 = 55$

6) $9^{n+3} + 3 = 84$

7) $4^{x-3} = 9$

8) $2^x = 7$

9) $5 + e^{x+1} = 20$

10) $5.6^{3x} = 20$

11) $10.e^{2b-2} = 60$

12) $8^{-5a} + 5 = 55$

13) $5^{x+2} = 4$

14) $3^x = 500$

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Name:

Date:

Solving Exponential Equations Requiring

Answers

Solve each equation.

1) $3^b = 17$
$b = 2.57$

2) $12^r = 15$
$r = 1.08$

3) $6^n = 99$
$n = 2.56$

4) $2.18^{6x} = 26$
$x = 0.69$

5) $11^{n-5} + 8 = 55$
$n = 6.605$

6) $9^{n+3} + 3 = 84$
$n = -1$

7) $4^{x-3} = 9$
$n = 4.58$

8) $2^x = 7$
$x = 2.80$

9) $5 + e^{x+1} = 20$
$x = 1.70$

10) $5.6^{3x} = 20$
$x = 0.57$

11) $10.e^{2b-2} = 60$
$b = 1.89$

12) $8^{-5a} + 5 = 55$
$a = -0.37$

13) $5^{x+2} = 4$
$x = -1.14$

14) $3^x = 500$
$x = 5.65$