



Solving Exponential Equations Requiring

Name: _____

Date: _____



Solve each equation.

1) $3^b = 17$

2) $12^r = 15$

3) $6^n = 99$

4) $2 \cdot 18^{6x} = 26$

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) $5 \cdot 6^{3x} = 20$

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

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

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

14) $3^x = 500$



QUIZ ?

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Answers



Solve each equation.

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

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

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

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

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

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

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

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

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

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

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

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

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

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



QUIZ ?

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