

Daily Agenda

Learning Targets:

- I can use the properties of exponents to simplify.
- I can find inverses of functions graphically and algebraically.
- I can use properties of logs to solve equations.
- I can solve real life problems with exponential models.

Homework Worksheet	Assessments Unit 7 Test - 2/1 and 2/2
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There is no substitute for hard work.
-Thomas Edison

Nov 15-8:24 PM

You invest \$500 at 7% interest compounded monthly. What is the balance after 5 years?
How long does it take to triple your investment?

$$A = 500 \left(1 + \frac{.07}{12}\right)^{5 \cdot 12} = \$708.81$$

$$1500 = 500 \left(1 + \frac{.07}{12}\right)^{12t}$$

$$3 = \left(1 + \frac{.07}{12}\right)^{12t}$$

$$\log\left(1 + \frac{.07}{12}\right) 3 = 12t$$

$$t = 15.74 \text{ yrs}$$

Jan 30-11:18 AM

# comp (yr)	n
Annual	1
Semi-Annual	2
Quarterly	4
Monthly	12
Daily	365

Jan 30-11:30 AM

Simplify

$$\sqrt[3]{128} \cdot \sqrt{32}$$

$$(2^7)^{\frac{1}{3}} (2^5)^{\frac{1}{2}}$$

$$2^{\frac{7}{3}} \cdot 2^{\frac{5}{2}}$$

$$\frac{7 \cdot 2}{3 \cdot 2} + \frac{5 \cdot 3}{2 \cdot 3}$$

$$\frac{14}{6} + \frac{15}{6}$$

$$\frac{29}{6}$$

$$2$$

Nov 14-9:17 AM

Simplify

$$(5a^3b)^4 (5a^4b)^{-2}$$

$$5^4 a^{12} b^4 \cdot 5^{-2} a^8 b^{-2}$$

$$5^2 a^{20} b^2 = \boxed{25a^{20}b^2}$$

Nov 14-9:29 AM

Simplify

$$\frac{(3x^2)^3}{6x^5}$$

Nov 14-9:29 AM

Simplify

$$\log_8 16\sqrt{2} = x$$

$$8^x = 16\sqrt{2}$$

$$8^x = 2^4 \cdot 2^{1/2}$$

$$2^{3x} = 2^{9/2}$$

$$\frac{3x}{3} = \frac{9}{2} \cdot \frac{1}{3}$$

$$x = \frac{9}{6}$$

$$= \boxed{\frac{3}{2}}$$

Nov 14-9:29 AM

NC - #2,3,4,6,9-19

Jan 30-11:46 AM

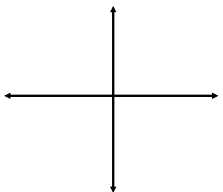
$y = \log_2(x+3) - 1$

Domain

Range

Asymptote

Critical Pt



Nov 8-8:46 AM

Jan 30-10:19 AM