Handout 1: Inverse, Schimverses - Answers

6. What is the inverse function of $y = 5^{2x+7}$

8. If the horizontal line test passes through

two points of a function, does it pass or

Multiplication

 $y = \frac{\log_5 x - 7}{2}$

2. What is the inverse function of z = 40x + 1?

7. Can x^4 have an inverse?

 $z = \frac{x-1}{40}$

No.

3. What is the inverse function of the set $\{1, 14; 3, 28; 5, 42\}$?

fail?

 $y = \frac{1}{7}x - 1$

Fail.

4. What is the inverse operation of exponentiation?

9. Can 10x - 4 have an inverse?

Taking the log.

Yes.

5. Can $x^3 + x + 1$ have an inverse?

10. What is the inverse function of $y = \ln 2x$?

Yes

$$y = \frac{e^y}{2}$$

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