

Quiz 1

Name:

2017/01/20

This quiz has 5 questions worth 14 points on 2 pages. Try to do as many questions as possible. You can use your calculator.

1. (4 points) Find the slope and y -intercept of following functions:

- $2y + 5x - 8 = 0$
- $12x = 6y + 4$

2. (2 points) If a power function passes through $(0, 2)$ and $(2, 18)$, please find a possible formula for this function.

3. (4 points) Mark following functions with 'Odd', 'Even' or 'Neither'

- $(x + 2)^2 - (x^2 + 2^2)$
- $\ln\left(\frac{x+1}{x-1}\right)$
- e^{x^2}
- $\cos(x^3 + 1)$

4. (2 points) Solve the equation $e^{\log(x)} = 10^{\ln(10)}$

5. (2 points) (Bonus Question) Solve the equation $e^{\log(x)} = 10^{\ln(2x)}$. Your answer must be exact.