

Name: _____ Date: _____ Block: _____

EVEN OR ODD FUCTIONS CLASS WORK ANSWERS

Determine whether the following functions are even, odd, both or neither:

1) $f(x) = -x^2 + 16$

10) $f(x) = |x| + 2$

2) $f(x) = -x^5$

11) $f(x) = |x|^3$

3) $f(x) = x^3 + 1$

12) $f(x) = \sqrt[7]{x}$

4) $f(x) = x^{-2}$

13) $f(x) = \frac{1}{x^2 + 1}$

5) $f(x) = x^3 + x$

14) $f(x) = x(x^2 + 2)$

6) $f(x) = -3x - 7$

15) $f(x) = x(x^3 + 2x)$

7) $f(x) = 0$

16) $f(x) = \frac{x^2}{2} + |x|^3$

8) $f(x) = 6x^4 + 7x^2$

17) $f(x) = \frac{|x|}{x^2 + 1}$

9) $f(x) = 2x^3 - 5x$

18) $f(x) = \frac{|x|}{x^3 - 1}$

- B. (1) even (2) odd (3) neither (4) even (5) odd (6) neither (7) both (8) even
(9) odd (10) even (11) even (12) odd (13) even (14) odd (15) even
(16) even (17) even (18) neither