

NAME:

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125

HOMEWORK 7.5

Secondary Math II

Turned in On Time (4 pts.) <input type="checkbox"/>	0A. (2 pt.) Solve for x. $x^2 + 7x + 6 = 0$	
	0B. (2 pt.) Solve for x. $x^2 + x - 5 = 0$	
Review		
1. (1 pt.) For $f(x) = x^2 - 3x - 6$ and $g(x) = x + 2$, determine $(f \circ g)(2)$.	2. (1 pt.) Simplify $(4 + 2i)(2 - i)$.	3. (1 pt.) Write the following expression as a radical expression. $(3x)^{\frac{3}{2}}$
Determine whether the following functions are even, odd, or neither.		
Classroom Exercise #4 (3 pts.) <input type="checkbox"/>	4A. (1 pt.) $f(x) = x^2 + 2$	
	4B. (1 pt.) $f(x) = 5x^4$	
	4C. (1 pt.) $f(x) = 3x^2 - 3$	
Use $f(x) = x^2$ for the following questions.		
5. (1 pt.) Is $2f(x)$ even, odd, or neither?	6. (1 pt.) Is $f(x+1)$ even, odd, or neither?	7. (1 pt.) Is $f(3x)$ even, odd, or neither?

Determine whether the following functions are even, odd, or neither.

Classroom Exercise #8

(3 pts.)

8A. (1 pt.) $f(x) = 2x$

8B. (1 pt.) $f(x) = 6x^3$

8C. (1 pt.) $f(x) = 7x^3 - 2$

Use $f(x) = x^3$ for the following questions.

9. (1 pt.) Is $-2f(x)$ even, odd, or neither?

10. (1 pt.) Is $f(x) + 3$ even, odd, or neither?

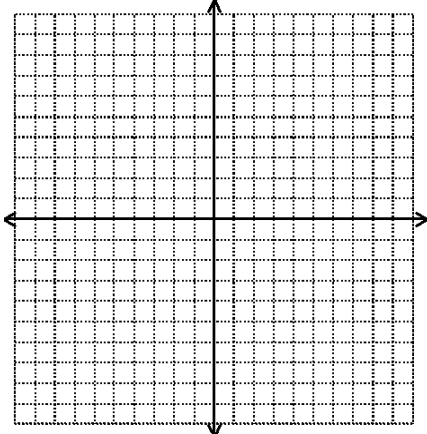
11. (1 pt.) Is $f(7x)$ even, odd, or neither?

Determine whether the following functions are even, odd, or neither.

12. (2 pt.)

A. Is $f(x) = 3x - 1$ even, odd, or neither?

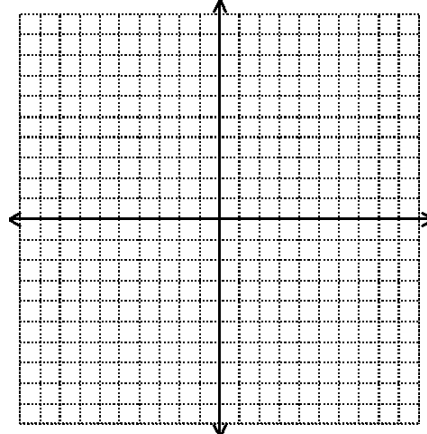
B. Graph the function below, label key points.



13. (2 pt.)

A. Is $f(x) = -3x^3$ even, odd, or neither?

B. Graph the function below, label key points.



14. (2 pt.)

A. Is $f(x) = 2x^2 - 1$ even, odd, or neither?

B. Graph the function below, label key points.

