

Instructor Name: Ms. Ryan Class Name: 8A - A

Student Name : _____ Instructor Note:

1. For each equation, determine whether it is linear.

Equation	Is the equation linear?	
	Yes	No
y = -5x + 7	C	C
y = x	C	0
$y = 4x^2 + 5$	C	0
y = -9	C	C

2. For each equation, determine whether it is linear.

Equation	Is the equation linear?	
	Yes	No
$y = x^3$	C	C
$y = x^2 - 6$	C	C
y = -x + 3	C	O
y = -7x	O	C

3. For each equation, determine whether it is linear.

Equation	Is the equation linear?	
	Yes	No
$y = -2x^3$	C	O
y = x + 9	O	O
$y = 4^x$	C	0
$y = x^2 + 2$	C	C

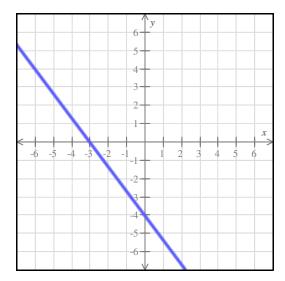
4. For each equation, determine whether it is linear.

Equation	Is the equation linear?	
	Yes	No
0.09x - 0.5y = 2.2	C	o
$y + \frac{7}{x} = 0$	C	C
5x - 8 + 9y = x - 7	C	О
-5x = 9	0	0

5. For each equation, determine whether it is linear.

Equation	Is the equation linear?	
	Yes	No
3x - 7 + 8y = y - 4	C	C
$x^3 - 2y = 4$	C	O
$\frac{3x}{4} - \frac{y}{5} = 6$	C	C
8xy + 4y = 7	C	C

6. Find the *x*-intercept and the *y*-intercept of the line below.



7. Find the *y*-intercept and *x*-intercept of the line.

$$-x+4y=8$$

y-intercept: _____

x-intercept: _____

8. Find the *y*-intercept and x-intercept of the line.

$$-2x + 4y = 15$$

y-intercept: _____

x-intercept: _____

9. For each ordered pair, determine whether it is a solution to 4x + 5y = -13.

(x, y)	Is it a solution?	
	Yes	No
(6, 3)	C	0
(-7, 4)	O	C
(8, -9)	0	O
(-2, -1)	C	c

10. For each equation, determine whether it is linear.

Equation	Is the equation linear?	
	Yes	No
$\frac{x}{2} - \frac{5y}{3} = 6$	С	О
6x + 7 + 9y = y - 3	С	О
-4y = 8	c	o
x = 8xy + 5	С	O

11. Linda is saving money to buy a game. So far she has saved \$16, which is one-fourth of the total cost of the game. How much does the game cost?

12. Solve for *u*.

$$53 = -\frac{u}{5}$$

Simplify your answer as much as possible.

13. Solve for *w*.

$$64 = 4w$$

Simplify your answer as much as possible.