

Class Name : **8B - B**Instructor Name : **Ms. Ryan**

Student Name : _____

Instructor Note : _____

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

Equation	Is the equation linear?	
	Yes	No
$y = x + 8$	<input type="radio"/>	<input type="radio"/>
$y = 5^x$	<input type="radio"/>	<input type="radio"/>
$y = x^2 + 2$	<input type="radio"/>	<input type="radio"/>
$y = -3x^3$	<input type="radio"/>	<input type="radio"/>

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

Equation	Is the equation linear?	
	Yes	No
$y = x^2 - 5$	<input type="radio"/>	<input type="radio"/>
$y = x^3$	<input type="radio"/>	<input type="radio"/>
$y = -x + 3$	<input type="radio"/>	<input type="radio"/>
$y = -2x$	<input type="radio"/>	<input type="radio"/>

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

Equation	Is the equation linear?	
	Yes	No
$y = -5x + 7$	<input type="radio"/>	<input type="radio"/>
$y = x$	<input type="radio"/>	<input type="radio"/>
$y = -9$	<input type="radio"/>	<input type="radio"/>
$y = 2x^2 + 5$	<input type="radio"/>	<input type="radio"/>

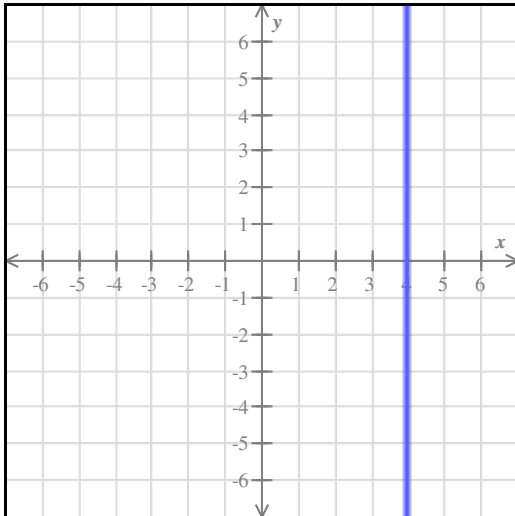
4. For each equation, determine whether it is linear.

Equation	Is the equation linear?	
	Yes	No
$5xy - 2y = 7$	<input type="radio"/>	<input type="radio"/>
$x^5 + 5y = 3$	<input type="radio"/>	<input type="radio"/>
$\frac{2x}{3} + \frac{y}{4} = 10$	<input type="radio"/>	<input type="radio"/>
$4x - 9 + 8y = y - 3$	<input type="radio"/>	<input type="radio"/>

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

Equation	Is the equation linear?	
	Yes	No
$\frac{6}{x} + 4y = 2$	<input type="radio"/>	<input type="radio"/>
$3x + 8xy = 7$	<input type="radio"/>	<input type="radio"/>
$8y^3 + y = x$	<input type="radio"/>	<input type="radio"/>
$7x = y - 6$	<input type="radio"/>	<input type="radio"/>

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



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

$$x + 2y = 8$$

x -intercept: _____

y -intercept: _____

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

$$9x + 3y = -10$$

y -intercept: _____

x -intercept: _____

9. For each ordered pair, determine whether it is a solution to $6x + 7y = 19$.

(x, y)	Is it a solution?	
	Yes	No
$(0, -3)$	<input type="radio"/>	<input type="radio"/>
$(-5, 7)$	<input type="radio"/>	<input type="radio"/>
$(3, -4)$	<input type="radio"/>	<input type="radio"/>
$(1, 2)$	<input type="radio"/>	<input type="radio"/>

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

Equation	Is the equation linear?	
	Yes	No
$6x^4 + x = y$	<input type="radio"/>	<input type="radio"/>
$5y = x - 9$	<input type="radio"/>	<input type="radio"/>
$2.2 = 0.05x - 0.7y$	<input type="radio"/>	<input type="radio"/>
$3x - \frac{2}{y} = 6$	<input type="radio"/>	<input type="radio"/>