

Your Task: You may use a calculator.

Here are six different equations.

1. $y = 4 + x$

2. $y = 4x$

3. $y = \frac{4}{x}$

4. $y = \frac{x}{4}$

5. $y = 4^x$

6. $y = x^4$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

1. Predict which of these equations represent a proportional relationship.

← write yes or no in the box with all lowercase letters.

2. Complete each table using the equation that represents the relationship.

1.

$y = 4 + x$

x	y	$\frac{y}{x}$
2		
3		
4		
5		

2.

$y = 4x$

x	y	$\frac{y}{x}$
2		
3		
4		
5		

3.

$y = \frac{4}{x}$

x	y	$\frac{y}{x}$
2		
3		
4		
5		

4.

$y = \frac{x}{4}$

x	y	$\frac{y}{x}$
2		
3		
4		
5		

5.

$y = 4^x$

x	y	$\frac{y}{x}$
2		
3		
4		
5		

6.

$y = x^4$

x	y	$\frac{y}{x}$
2		
3		
4		
5		

3. Do these results change your answer to the first question? Explain your reasoning.