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. _____ 4. _____

2. _____ 5. _____

3. _____ 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.