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.