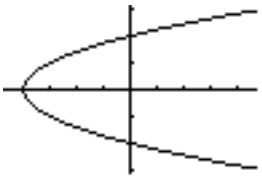
College Algebra **Identifying Functions**

Each of the following shows a relationship between two variables x (the independent variable) and y (the dependent variable). The relationship is given either as a rule, a graph, or a table. If the relationship is a function of y with respect to x, then "circle" the number of the relationship. If the relationship is **not** a function of y with respect to x, then put an "X" through the number. You need to be able to justify your answers!

1. $y = \dfrac{2x}{x-1}$

2. 

3.

X	-3	-2	-1	0	1	2	3
Y	4	4	4	4	4	4	4

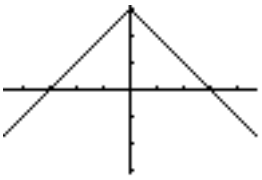
4. $y = \sqrt{9 - x^2}$

5.

X	3	2	1	0	1	2	3
Y	-3	-2	-1	0	1	2	3

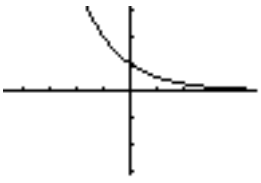
6. $3x + y^2 = 6$

7. $x = y^3$

8. 

9.

X	-3	-2	-1	0	1	2	3
Y	-9	-4	-1	0	-1	-4	-9

10. 

11. $x = y^4$

12.

X	-3	-2	-1	0	-1	-2	-3
Y	1/8	1/4	1/2	1	2	4	8