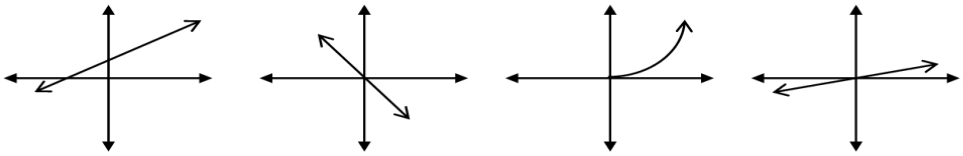
Name _____**Date** _____ **Period** _____

Identifying Proportional Relationships
Linear Functions

Which of the following graphs represent a proportional relationship? Explain.



Which of the following equations represent a proportional relationship? Explain.

Y = 3x + 6 $y = \frac{1}{2}x$ y = 5 $y = 3x^2$ y = -5x

Which of the following sets of data are proportional? Explain.

{ (22, 11), (30, 15), (46, 23) }

{ (7, 7), (8, 9), (9, 11), (11, 15) }

X	Y
0	4
1	2
2	0
4	-4

X	Y
1	-5
2	-10
3	-15
10	-50

Which of the following represent a proportional relationship? (check all that apply)

____the cost of a plumber at $30 an hour and a $25 service call fee
____the cost of apples at $1.79 a pound
____total number of people at a party if there are exactly 4 people per table
____total number of chairs if there are exactly 4 per table and 10 lined up along the wall
____distance run at 7 miles per hour