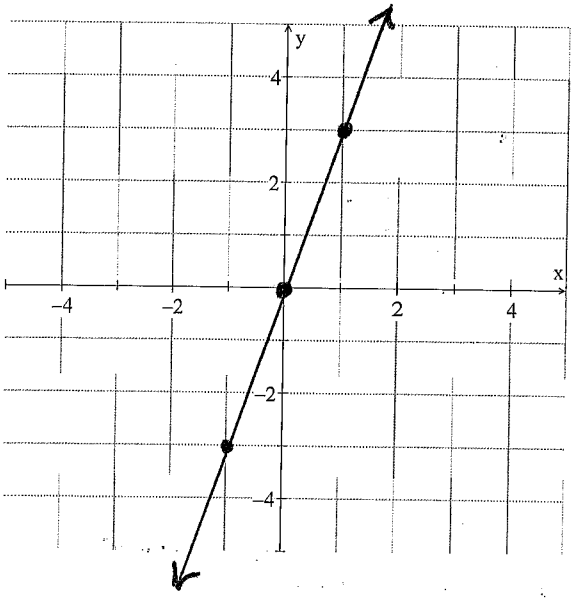
After Break Graphing Proportional Relationships

Name: B. WILSON

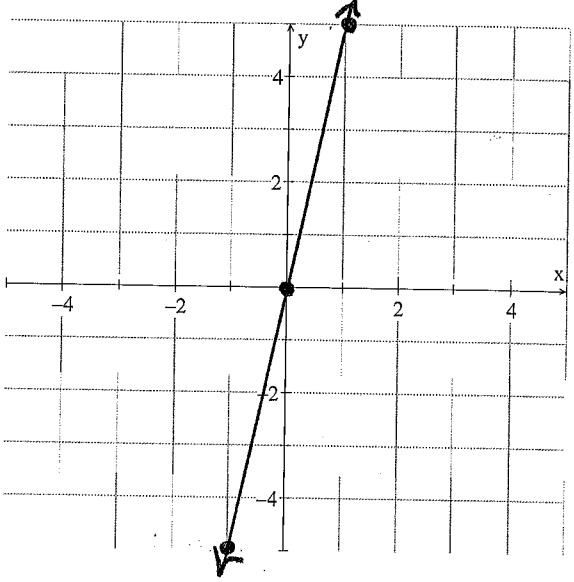
Period: _____

Graph the following using the idea that: $\text{Slope} = \frac{\text{Rise}}{\text{Run}}$

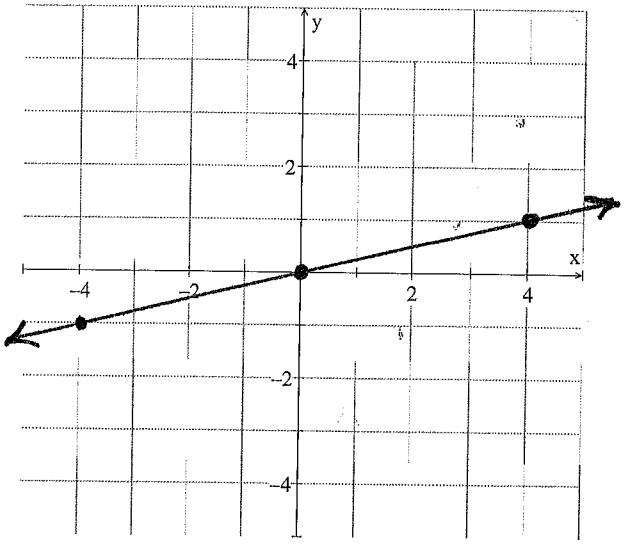
1. $y = 3x$ → $3 = \frac{3}{1}$ ← RISE ← RUN



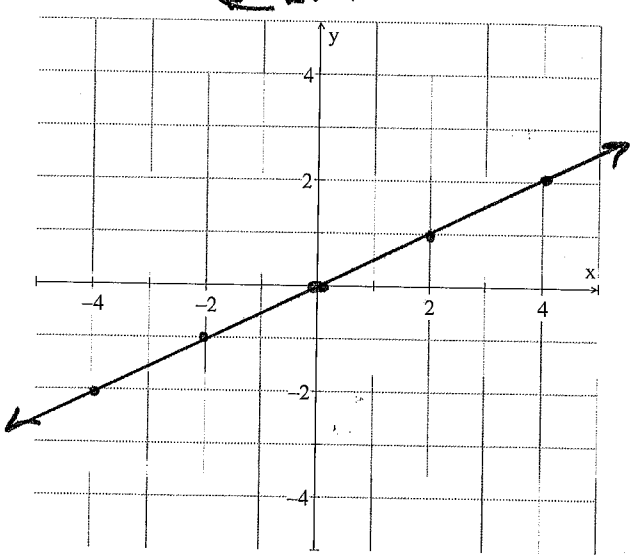
2. $y = 5x$ → $5 = \frac{5}{1}$ ← RISE ← RUN



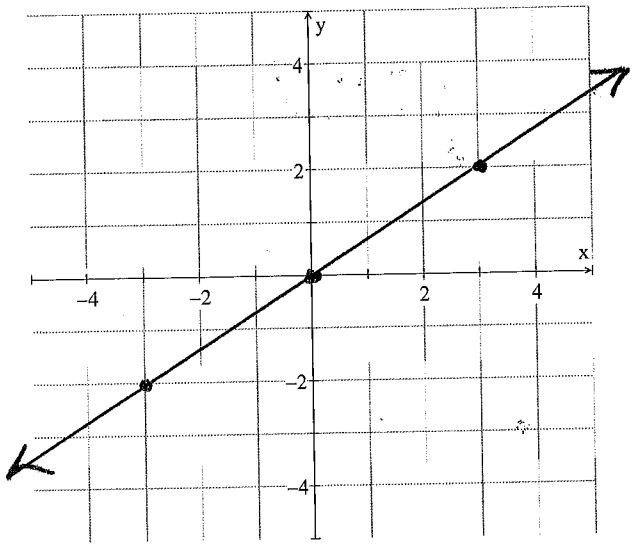
3. $y = \frac{1}{4}x$ ← RISE ← RUN



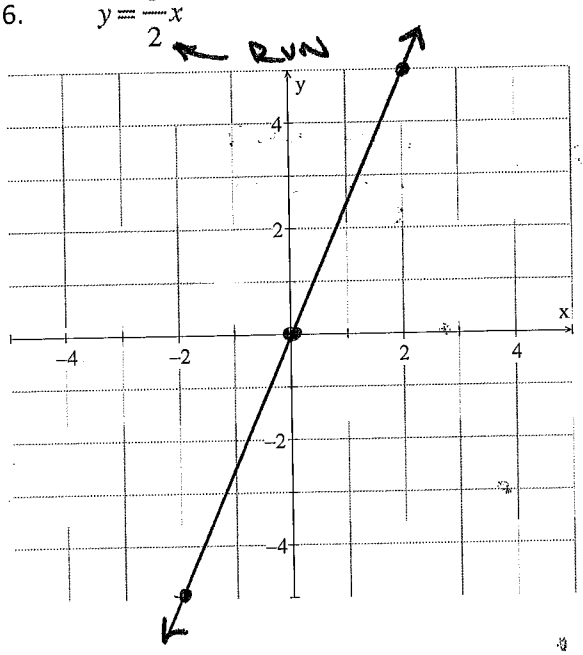
4. $y = \frac{1}{2}x$ ← RISE ← RUN



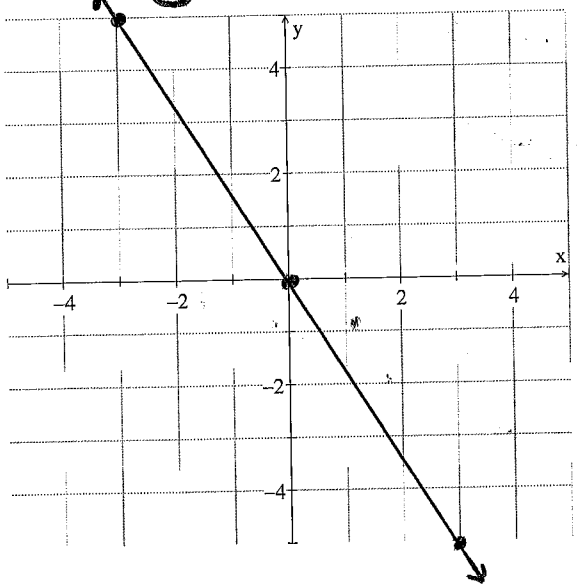
5. $y = \frac{2}{3}x$ ← RISE ← RUN



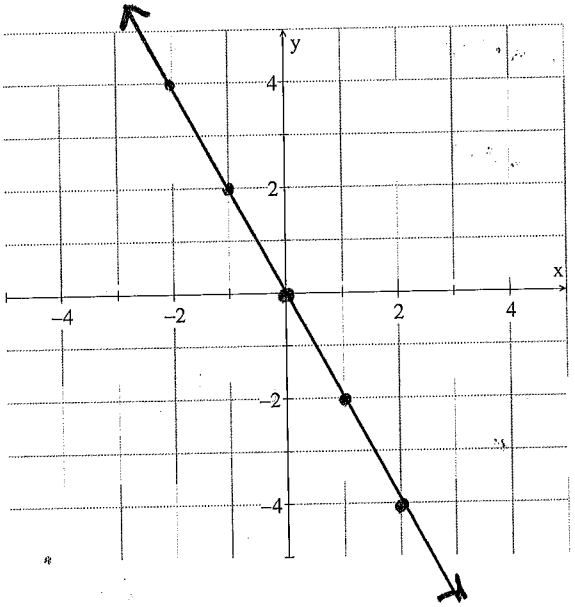
6. $y = \frac{5}{2}x$ ← RISE ← RUN



7. $y = -\frac{5}{3}x$ $-\frac{5}{3} = \frac{-5}{3}$ ← RISE ← RUN



7. $y = -2x$ $-\frac{2}{1} = \frac{-2}{1}$ ← RISE ← RUN



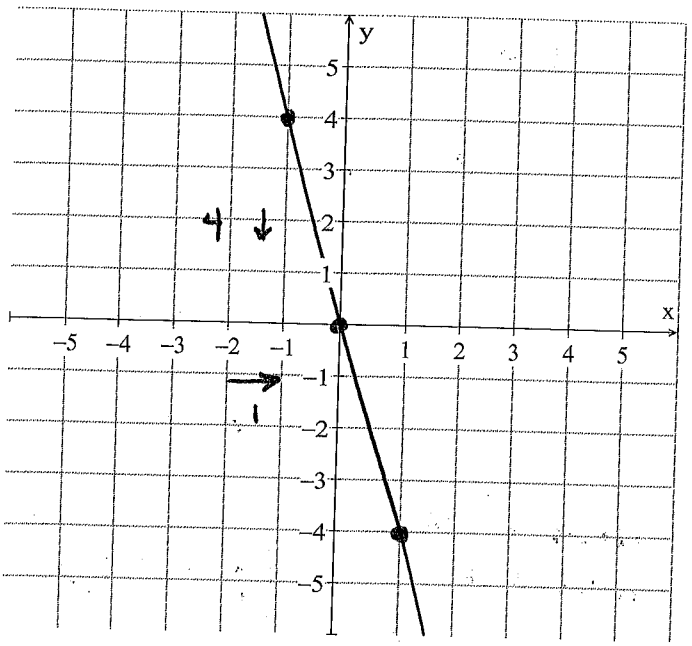
After Break Writing Proportional Equations

Name: B. Wilson

Period: _____

Determine the equation of the given lines.

1.



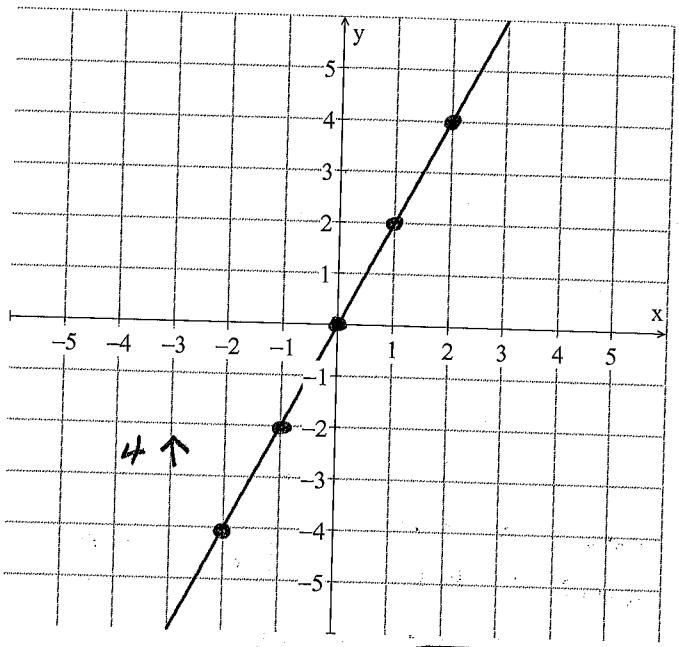
RISE = -4

RUN = +1

SLOPE = $\frac{-4}{1}$ OR -4

$y = -4x$

2.



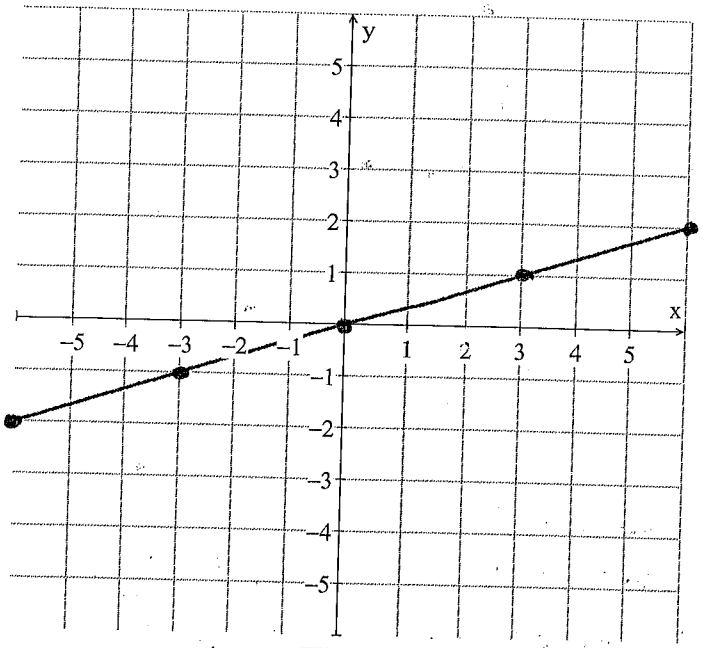
RISE = +4

RUN = +2

SLOPE = $\frac{4}{2} = \frac{2}{1} = 2$

$y = 2x$

3.



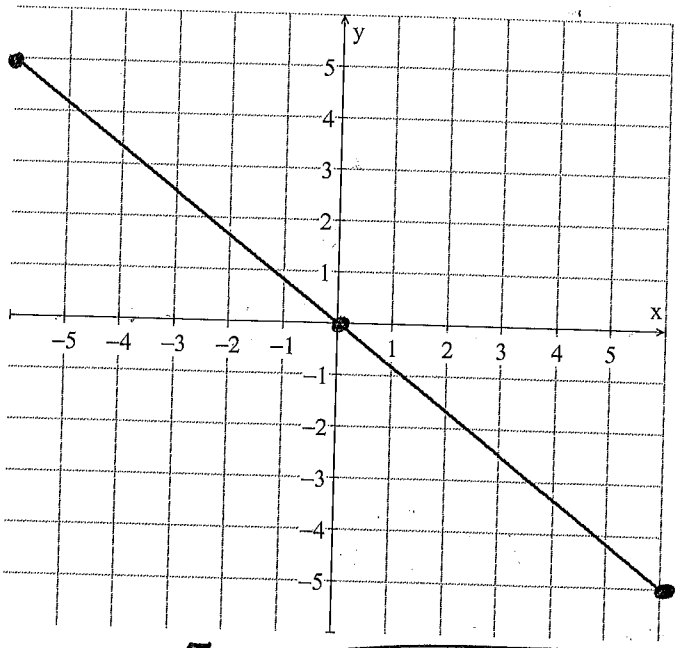
RISE = +1

RUN = +3

SLOPE = $\frac{1}{3}$

$y = \frac{1}{3}x$

4.



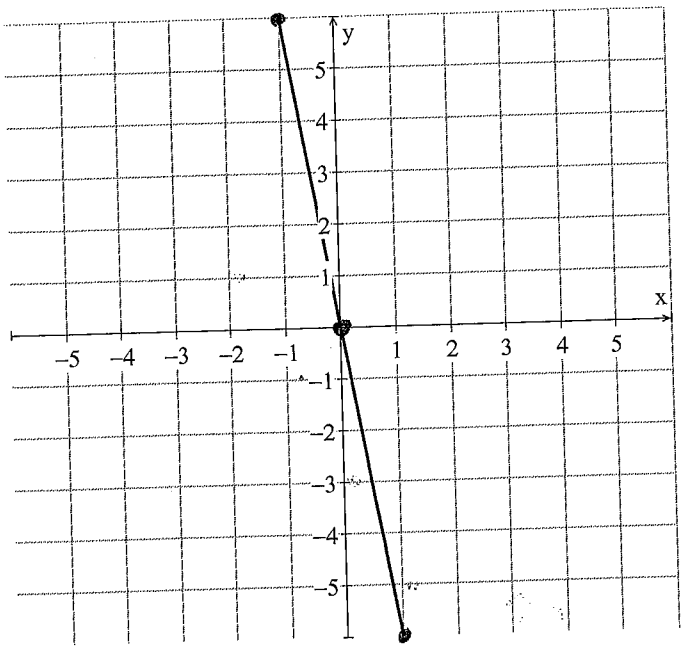
RISE = -5

RUN = +6

SLOPE = $-\frac{5}{6}$

$y = -\frac{5}{6}x$

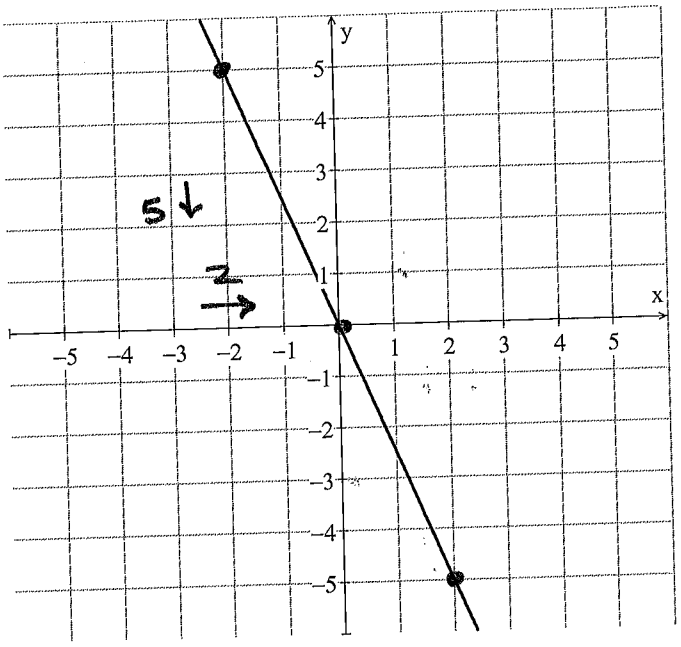
5.



RISE = −6
RUN = +1
SLOPE = $\frac{-6}{1} = -6$

$y = -6x$

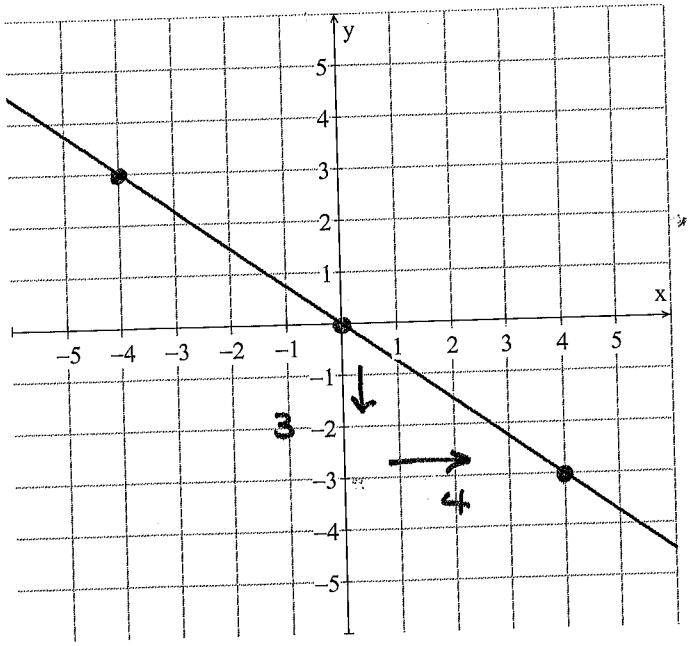
6.



RISE = −5
RUN = +2
SLOPE = $-\frac{5}{2}$

$y = -\frac{5}{2}x$

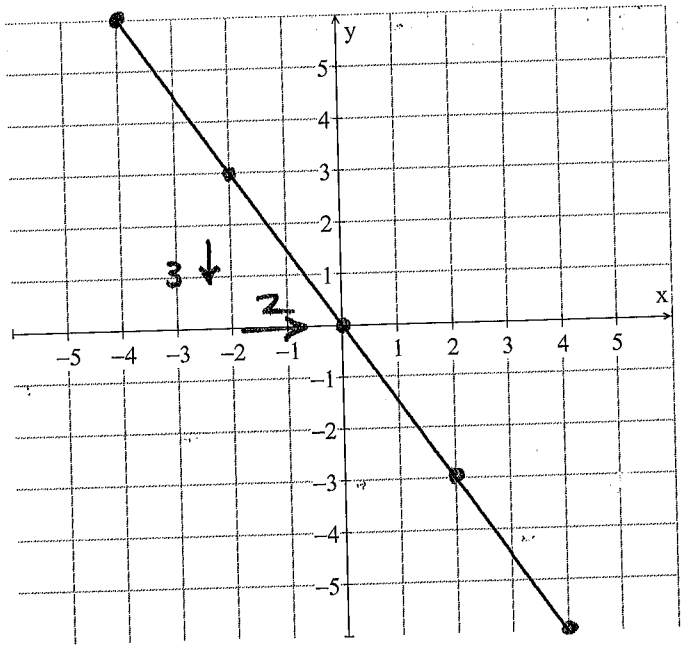
7.



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

RISE = −3
RUN = +4
SLOPE = $-\frac{3}{4}$

8.



RISE = −3
RUN = +2
SLOPE = $-\frac{3}{2}$

$y = -\frac{3}{2}x$