Note Taking Guide – Episode 106, Part 2   Name_____
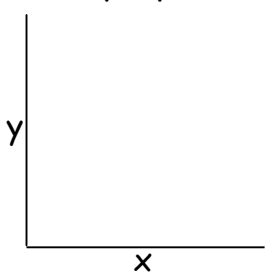
Fill in the graphs and blanks in this box before viewing the tape again.
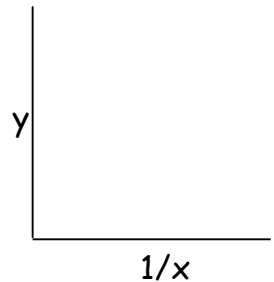
Inverse proportion:

y |

Graph of "y vs x" is a _____.
Graph of "y vs 1/x" is a _____ _____.   y |

____ α ____

equation form: _____ = ____

x

1/x

Using Equations to show how variables are related:

Use numbers to find out how
P and F are related in the equation:
$F = P A$

Use numbers to find out how
P and A are related in the equation :
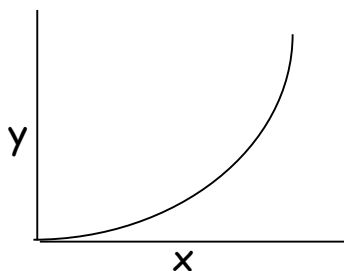$F = P A$

P and F are _____ proportional.

P and F are _____ proportional.

When equation is on one line (like "P A = F"), variables on the:
- same side of the = sign are _____ proportional.
- opposite sides of the = sign are _____ proportional

Real-Life Example of "P A = F":
   Would you rather have an elephant or a woman in spike heels walk on your
   marble floor? Explain, using the equation.

y |

x

This graph shows that y is directly proportional to x in
some form because as y increases, x _____.
The graph describes an _____
relationship.

Scientists keep manipulating data (like graphing y vs _____)
until they get a _____ line. Then they can write
an _____ for the relationship.

SHOW WHAT YOU KNOW: *(on back.)*