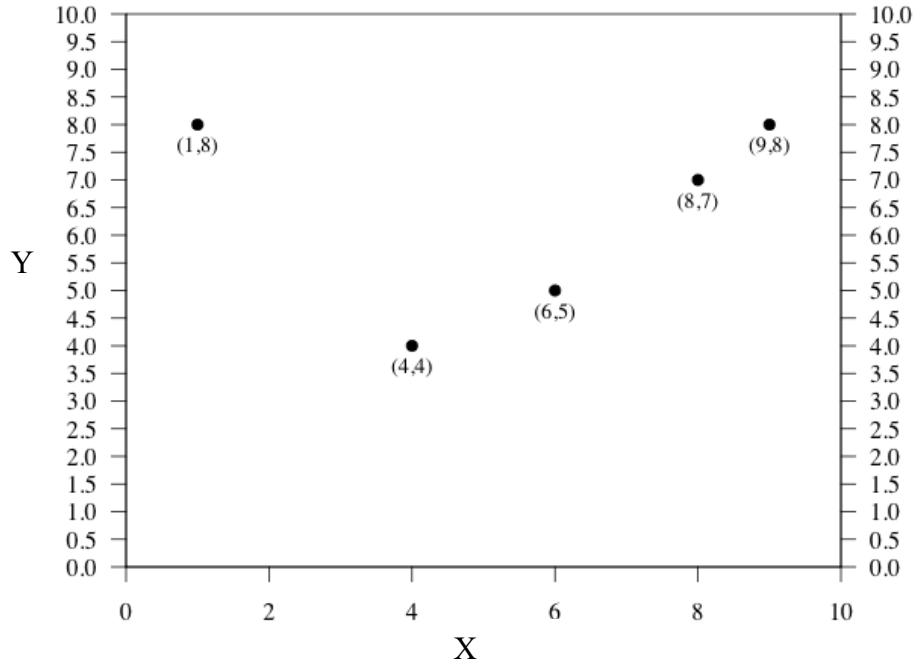

1. Use a straightedge to draw a straight line through these data. Try to draw the line that "best fits" the data. Make sure that it intercepts the vertical axis.
2. Recall that the formula for a line is given by $y = mx + b$.
3. Write down the following bits of information.
    a. Where does the line intersect the left vertical axis?_____ (call this "A")
    b. Where does the line intersect the right vertical axis?_____ (call this "B")
    c. Your intercept (given by "b" in the equation for a line) is simply A.
    d. Your slope (given by "m" in the equation for a line) is more complicated. It's given by (B - A)/10.
    e. Now write down the equation for your line: _____
4. Complete the table below.

X	actual Y	predicted Y $= mX + b$	error $= Y -$ predicted Y	error^2
1	8			
4	4			
6	5			
8	7			
9	8			

r.m.s. error: _____