

BE-1A | TUESDAY 4-1-08

- ① FIND m of a line through $(22, 58), (30, 76)$.
- ② DEFINE perpendicular lines.
- ③ GRAPH $y = 6$
- ④ GRAPH $x = -2$
- ⑤ CONVERT 6 ft 4 inches to inches.

• Homework Review - Pg 301 # 1, 2, 4, 5

More
ANALYZING Scatter Plots

Page 299 ^{EX}# 1A
^{EX}# 1B

Pg 300 ex# 2 $\Rightarrow$ "YEARS SINCE"
ON X AXIS.

How TO FIND THE EOL for the best fit
LINE OF A SCATTER PLOT:

① Pick 2 points on the line, if possible,
pick 2 points that ARE NOT too
close together AND that ARE ON AN EVEN
grid boundary. Ex) (22, 58), (30, 76)

② Find m , use " $y = mx + b$ twice"
method to find EOL

* (could use
point-slope
form)

$$m \Rightarrow (22, 58), (30, 76)$$

$$\frac{76-58}{30-22} = \frac{18}{8} = \frac{9}{4} = m$$

$$y = mx + b$$

$$58 = \frac{9}{4} \cdot 22 + b$$

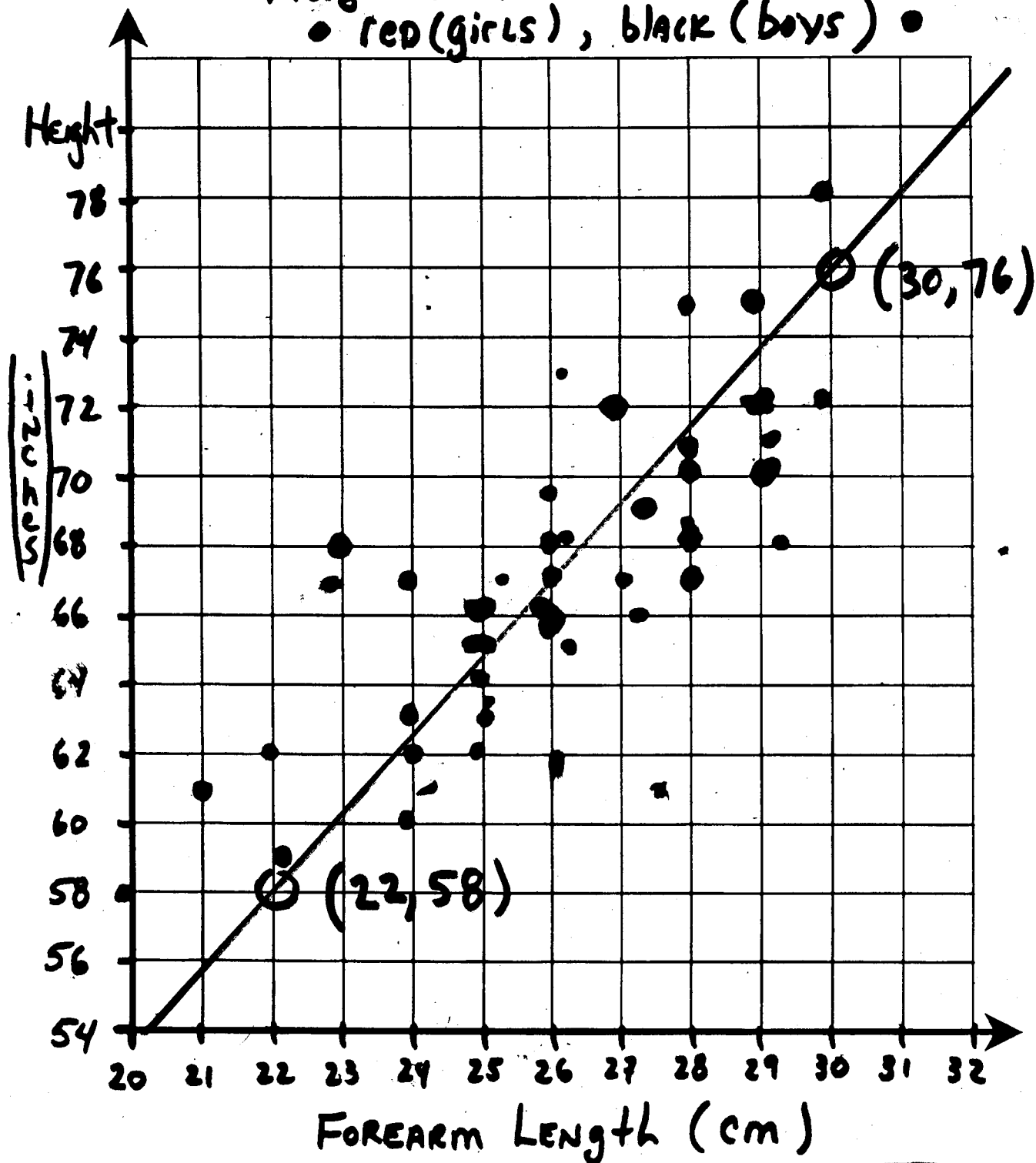
$$58 = \frac{99}{2} + b \quad \text{or} \quad 58 = 49.5 + b$$

$$-49.5 \quad -49.5$$

$$8.5 = b$$

$$\therefore h = \frac{9}{4}f + 8.5$$

Height (in.) vs. Forearm Length (cm)
 • red (girls), black (boys) •



Period 1

Period 4

Period 7

Summary of Ch. 5-6

$\Rightarrow$ // AND $\perp$ lines.

// lines have same slope

(EX) $y = 2x + 4$
 $y = 2x - 15$

$\perp$ lines have slopes that
ARE NEGATIVE RECIPROALS.

(EX) $y = 2x + 6$
 $y = -\frac{1}{2}x + 3$

- Review graded Quiz 1

- Homework: Pg 302-303
10 to 13, 16, 17.