

Bellwork: in groups, please go over homework and complete BW #15

~~14~~

$$3a \rightarrow y = \frac{5}{3}x - 4$$

⑦ perp.

⑭ parallel $m = -2$

$$kx + 4y = 15$$

$$16x + ky = 10$$

$$\rightarrow \frac{4y}{4} = \frac{-kx + 15}{4}$$

$$y = \frac{-k}{4}x + \frac{15}{4}$$

$$\rightarrow \frac{ky}{k} = \frac{-16x + 10}{k}$$

$$y = \frac{-16}{k}x + \frac{16}{k}$$

$$-\frac{k}{4} = \frac{-16}{k}$$

$$k^2 = 64$$

$$k = 8$$

$$\textcircled{2} \quad 2 \div (1 \div 3 + 1 \div 2) \quad A$$

$$\textcircled{3} \quad 25 + 5k - 40 = 0$$

$$k = 3$$

E

19

Year
0

Year

%
52.3
62.5

Let 1970 be 0
1975 be 5

1975

0

5

10

15

20

1995

25

29

- ① Make scatter plot
- ② Choose 2 pts for a Best Fit Line (Prediction line)
- ③ Write eqn.

Use 1975 & 1995

(1975, 62.5)

(1995, 81.7)

$$m = \frac{81.7 - 62.5}{1995 - 1975} = \frac{19.2}{20} = 0.96$$

$$y = mx + b$$

$$62.5 = 0.96(1975) + b$$

$$62.5 = 1896 + b$$

$$b = -1833.5$$

$$y = 0.96x - 1833.5$$

$$y = 0.96(2010) - 1833.5$$

$$y = 96.1$$

In 2010, 96.1% of ppl ages 25+
over have a HS diploma.

Read & Take Notes on 2-6

Bring Graphing Calculator
(Not PB hw)

BW 14

①

$$17\frac{1}{2} \div \frac{3}{4}$$

$$17.5 \div 0.75$$

$$\frac{35}{2} \div \left(\frac{3}{4}\right)$$

$$(17 + 1/2) \div (3/4)$$

A

②

$$y^2 - 5 = 3y - 5$$

+5

+5

$$y^2 = 3y$$

$$-3y \quad -3y$$

$$y^2 - 3y = 0$$

$$y(y-3)=0$$

$$y=0$$

$$y-3=0$$

$$y=3$$

B

$$\textcircled{3} \quad -3(x+3y=19)$$

$$\left\{ \begin{array}{l} 3x+y=5 \\ -3x-9y=-57 \end{array} \right.$$

$$\underline{x+y=?}$$

$$-8y=-52$$

$$x+3y=19$$

$$3x+y=5$$

$$\underline{4x+4y=24}$$

4

$$\underline{x+y=6}$$

D

BW 15

①

$$kx + 4y = 15$$

$$4y = -kx + 15$$

$$y = \frac{-k}{4}x + \frac{15}{4}$$

$$16x + ky = 10$$

$$ky = -16x + 10$$

$$y = \frac{-16}{k}x + \frac{10}{k}$$

$$\frac{-k}{4} = \frac{-16}{k}$$

(parallel)

$$k^2 = 64$$

$$k = 8 \quad -8 \quad C$$

② A.

③ E

7th pd

① Solve for y :

$$y^2 - 5 = 3y - 5$$

② What was the letter and number answer to #2 on BW 13?

③ Simplify: $\sqrt{50}$