

Finding Linear Functions

Lecture 9/14/23 : Systems of Linear Equations

HW Due : ~~Homework~~, 12, 13, 14, 15

Fri. Sun. Mon. Wed.

Exam Next week Tuesday. / Webwork / Learning Class
Quiz 3 Tomorrow

Recall :

S

~~G~~-I-F

$$y = mx + b$$

$m = \text{slope}$

$b = y\text{-int}$
of $y\text{-int.}$

D-S-F ;

$$y = m(x - x_1) + y_1$$

$m = \text{slope}$

(x_1, y_1) = is point
on the line.

Ex : #6 workbooks

① Find points

~~W~~

$$(-1, 6) \quad (\frac{1}{2}, \frac{29}{4})$$

Pass

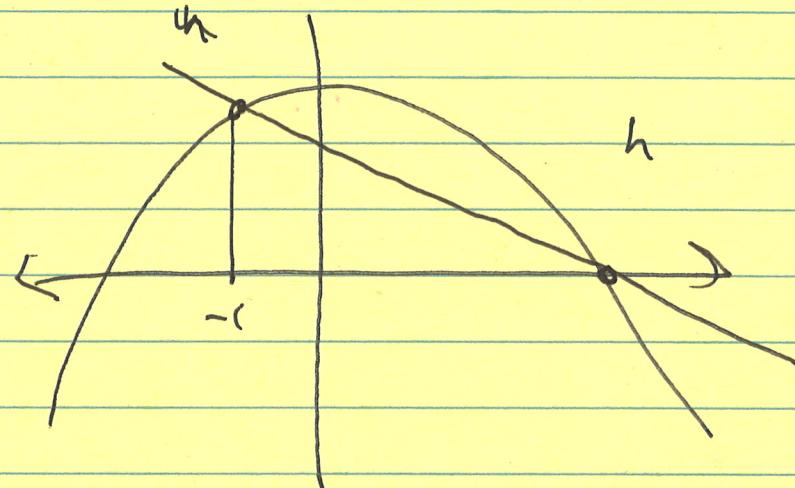
② Find slope

$$\frac{\frac{29}{4} - 6}{\frac{1}{2} - (-1)} = \frac{\frac{5}{4}}{3} = \boxed{\frac{5}{12}}$$

③ P-S-F

$$y = \frac{5}{12}(x + 1) + 6$$

Ex #8



~~Note~~

- ① Find where $h = 0$.

$$0 = -x^2 + 4 \Leftrightarrow x = \pm 2$$

-2 ~~count~~ is not what we want
2 is!

- ② We have points $(-1, h(-1))$ and $(2, 0)$

$$\stackrel{\text{II}}{(-1, 3)}$$

- ③ Find slope $m = \frac{3}{3} = 1$

- ④ P-S-F

$$y = (x+1) + 3$$