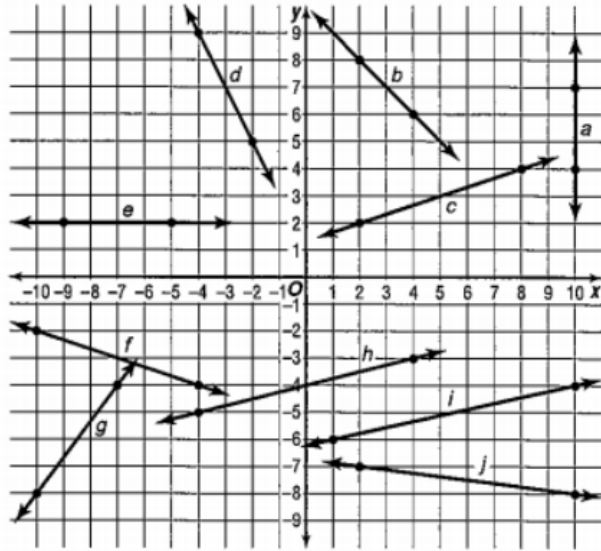


Welcome! Please get your ISN and warmup and have a seat. Remember to turn in your homework!!

Determine the slope of each line.

you do not have to draw this!

1. a
2. b
3. c
4. d
5. e
6. f



Sep 8-8:09 AM

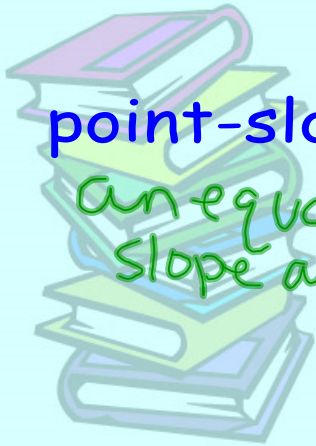
Welcome! Please get your ISN and complete the warmup video in the Google classroom! Remember to turn in your homework!!



Sep 14-9:03 AM

WWK

slope-intercept form- $y = mx + b$
an equation of a line that shows
slope and y-intercept.

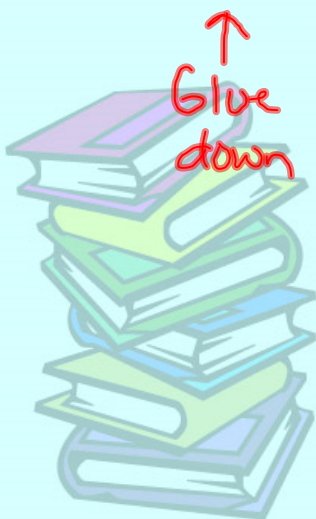


point-slope form- $y - y_1 = m(x - x_1)$
an equation of a line that shows the
slope and a point on that line.

Sep 10-9:10 AM

TOC 25-26 point-slope form

y	-	y ₁	=	m	(x	-	x ₁)
---	---	----------------	---	---	---	---	---	------------------



↑
Glue
down

↑
Glue
down

↑
Glue
down

Sep 8-8:15 AM

TOC 25-26 point-slope form

y		y_1		m		$(x$		$x_1)$
DO NOT PLUG		plug in the y from		plug in the slope	DO NOT PLUG			plug in the x from
<u>IN HERE!</u>	—	the point you are given.	=	you are given	<u>IN HERE</u>	—		the point you are given.



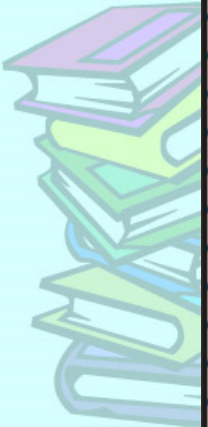
Sep 8-8:18 AM

Point-Slope form 26

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

When Given slope and 1 point... Write the equation of the line w/slope=3 through (2,4).

When Given 2 Points...



Sep 10-9:28 AM

TOC 23-24 slope-intercept and point-slope

Write the equation of a line with slope = 3 that passes through (2,4)

When Given slope and 1 point...

work

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

$$y - 4 = 3(x - 2)$$

$$y - 4 = 3x - 6$$

$$y = 3x - 2$$

steps

① Plug in m, x_1, y_1 .

② Distribute

③ Get y by itself.

Sep 8-8:19 AM

TOC 23-24 slope-intercept and point-slope

Write the equation of a line through

(1, -3) and (4, 5)

When Given 2 Points...

work

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{5 - (-3)}{4 - 1} = \frac{8}{3} = m$$

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

$$y - (-3) = \frac{8}{3}(x - 1)$$

$$y + 3 = \frac{8}{3}x - \frac{8}{3}$$

$$y = \frac{8}{3}x - \frac{17}{3}$$

steps

① Find slope

② Plug in m, x_1, y_1 .

③ Distribute

④ Get y by itself

Sep 9-7:50 AM

Ex1 (pg 23) Write the equation of a line with:

a) slope = $\frac{1}{2}$ that passes through $(6, -2)$

b) slope = -4 through the origin



Sep 9-7:54 AM

Homework

Write an equation in point-slope form of the line that passes through the given point and has the given slope.

1 $(2, 7); m = -4$

2 $(12, 5); m = -3$

3 $(4, -5); m = 6$

5 $(7, -6); m = \frac{1}{2}$

4 $(-6, -2); m = 3$

6 $(-8, 2); m = -\frac{3}{4}$

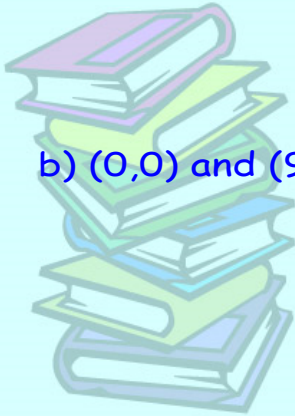


Sep 9-7:56 AM

Welcome! **Your warmup today is IN
YOUR ISN!!!** Remember to turn in your homework!

Ex2 (pg 23) Write the equation of a line through:

a) $(7, 4)$ and $(-3, -1)$



b) $(0,0)$ and $(9, -3)$

Sep 9-7:55 AM