

1 Are lines 1 & 2 parallel?	
Line 1: (1, 3) & (-5, 1)	
Line 2: (4, 2) & (-4, -2)	
Yes No	

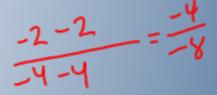
2 What is the slope of line 1 from the prior page?

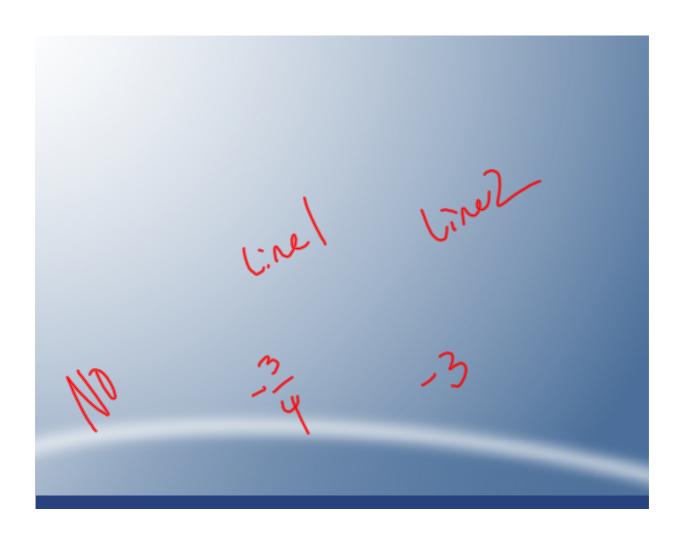
Line 1: (1, 3) & (-5, 1)

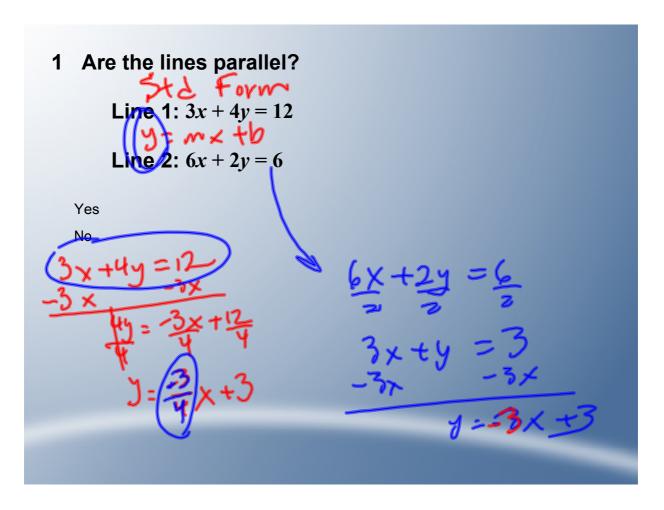


3 What is the slope of line 2 from the prior page?

Line 2: (4, 2) & (-4, -2)







2 What is the slope of line one from the prior page?

Line 1: 3x + 4y = 12

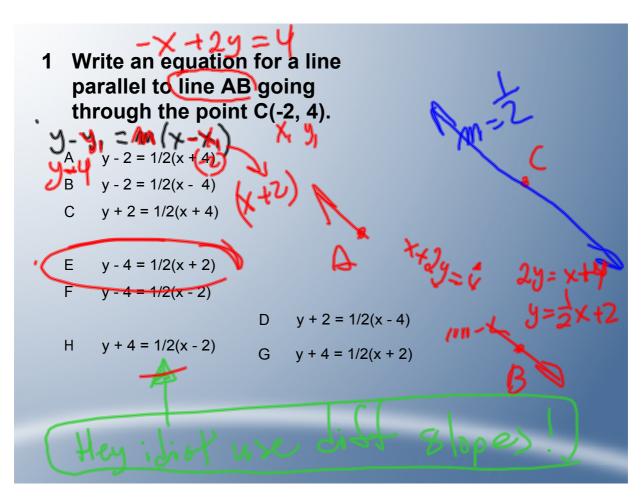


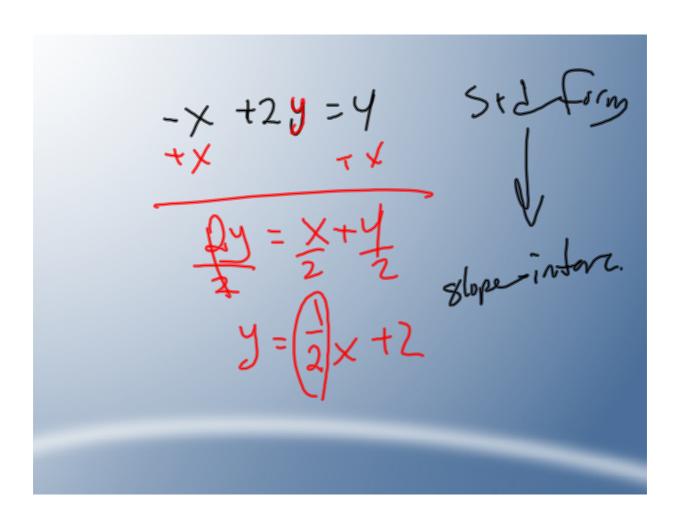
What is the slope of line 2 from the prior page?

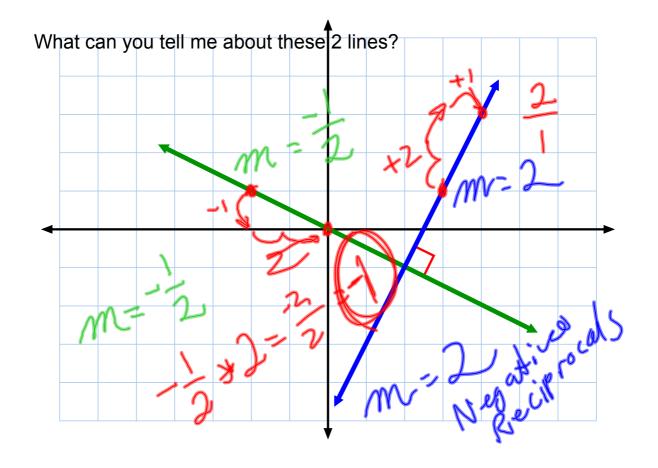
Line 2: 6x + 2y = 6

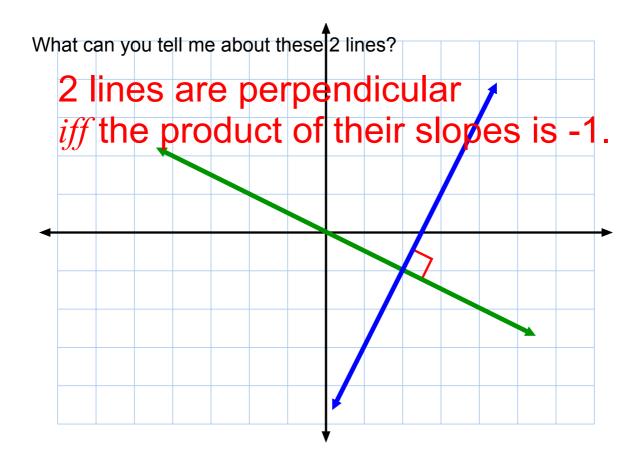


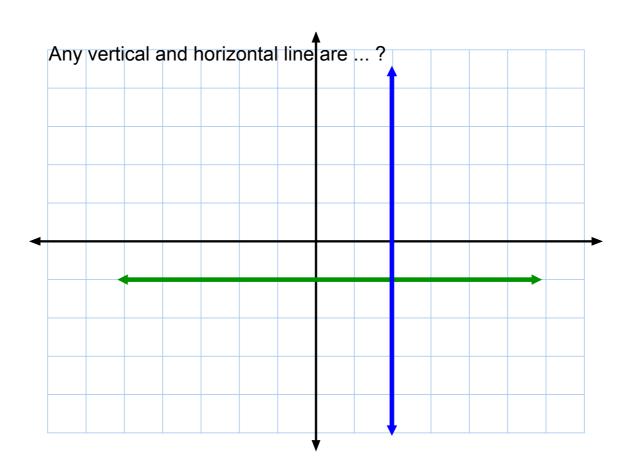


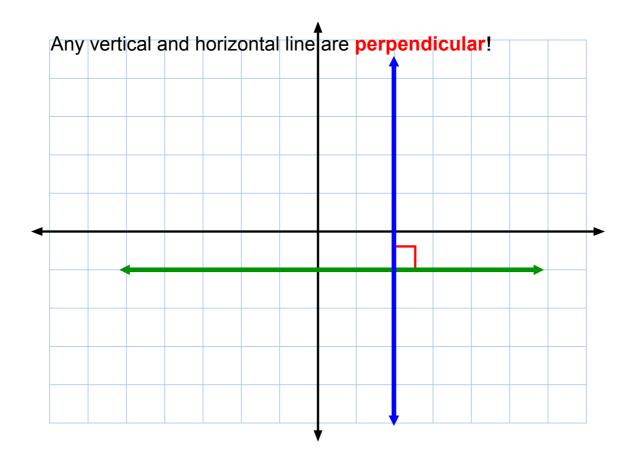


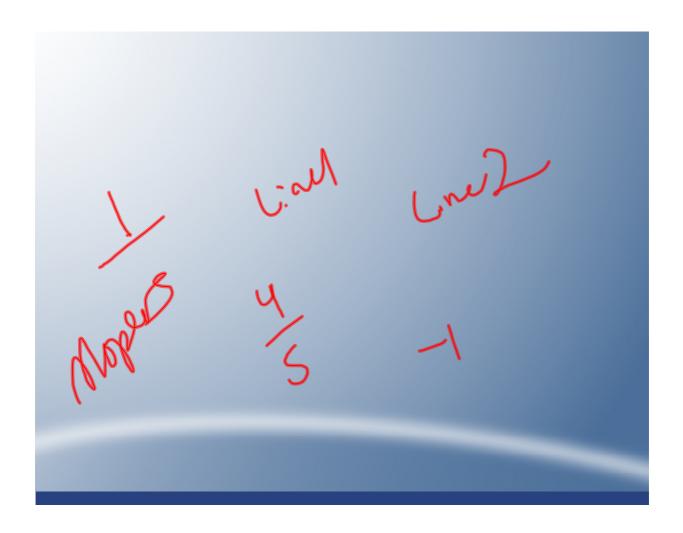




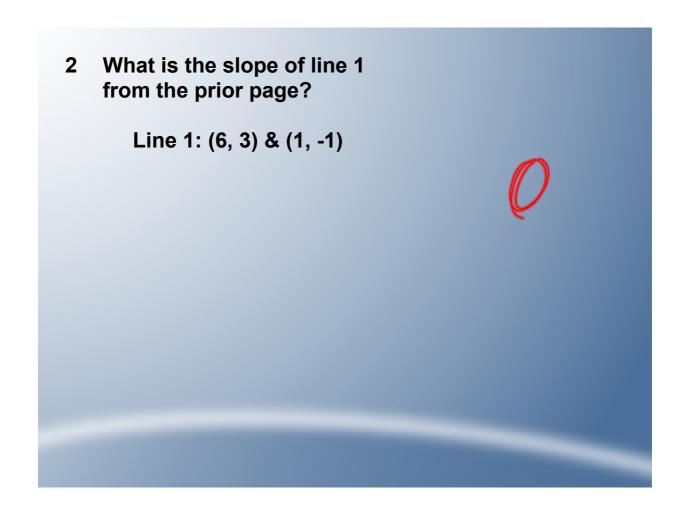








## 1 Are the two lines perpendicular? Line 1: (6, 3) & (1, -1) Line 2: (-4, 4) & (1, -1) Yes No



3 What is the slope of line 2 from the prior page?

Line 2: 
$$(-4,-4)$$
 &  $(1,-4)$ 

$$m = \frac{y_2 - y_1}{y_2 - y_1}$$

$$= \frac{-1 - y_1}{1 - 1 + y_1} = \frac{-3}{5} = -1$$



1 Write an equation for the line perpendicular to line MN containing point P.

Line MN: 
$$y + 2x = -8$$
  
P(4, 4)  $y = -2x - 8$ 

A 
$$y + 4 = 1/2(x + 4)$$

B 
$$y + 4 = 1/2(x - 4)$$

C 
$$y - 4 = 1/2(x + 4)$$

E 
$$y + 4 = -2(x + 4)$$

F 
$$y + 4 = -2(x - 4)$$

G 
$$y - 4 = -2(x + 4)$$



## 1 Pg 162, #24

- A x = 3/2y
- B x = -3/2y
- C x = 2/3y
- D x = -2/3y
- E y = 3/2x
- G y = 2/3x

- H y = -2/3x F y = -3/2x

## L3-6 HW Problems