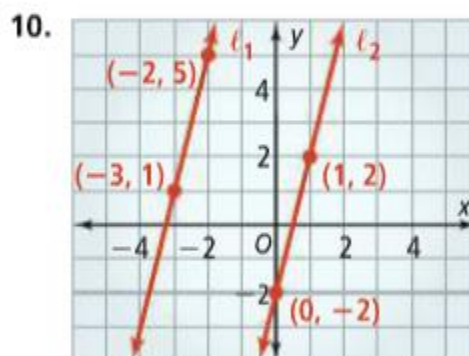
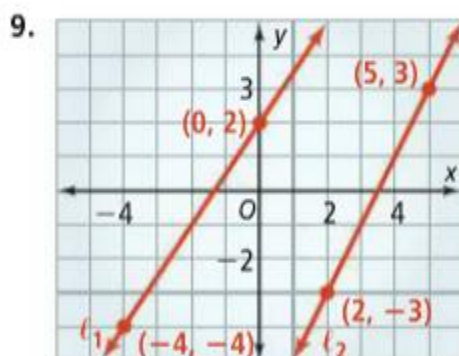
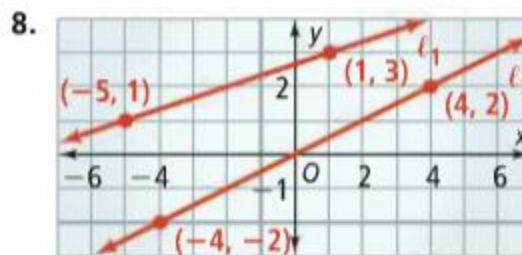
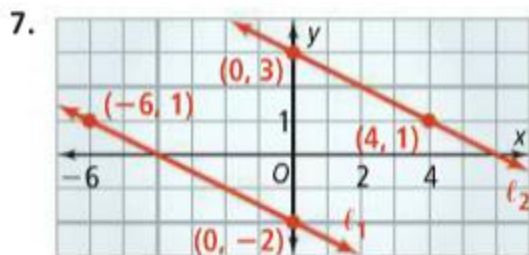


DAY 13 - 3.8 HOMEWORK  
PAGE 201 #7-25 ODD. 36. 38

For Exercises 7-10, are lines  $\ell_1$  and  $\ell_2$  parallel? Explain.

See I



Write an equation of the line parallel to the given line that contains C.

See I

11.  $C(0, 3)$ ;  $y = -2x + 1$

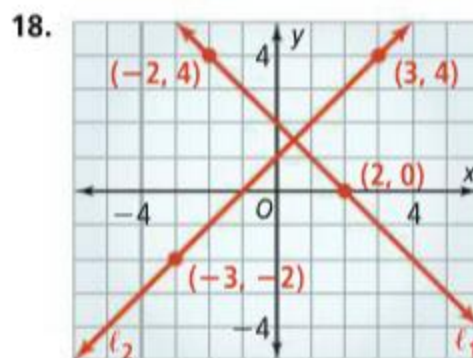
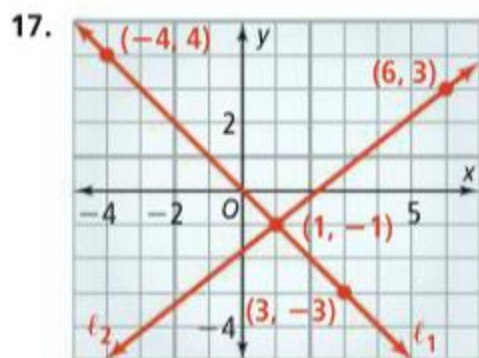
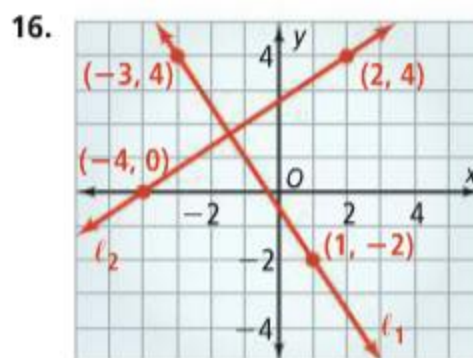
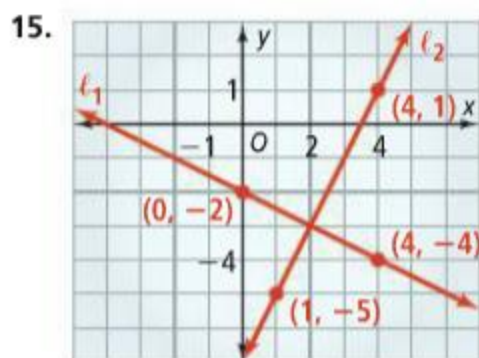
12.  $C(6, 0)$ ;  $y = \frac{1}{3}x$

13.  $C(-2, 4)$ ;  $y = \frac{1}{2}x + 2$

14.  $C(6, -2)$ ;  $y = -\frac{3}{2}x + 6$

For Exercises 15–18, are lines  $\ell_1$  and  $\ell_2$  perpendicular? Explain.

See Problem



Write an equation of the line perpendicular to the given line that contains  $P$ .

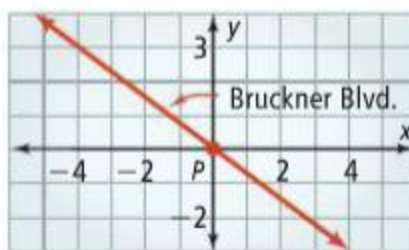
See Problem

19.  $P(6, 6); y = \frac{2}{3}x$

20.  $P(4, 0); y = \frac{1}{2}x - 5$

21.  $P(4, 4); y = -2x - 8$

22. **City Planning** City planners want to construct a bike path perpendicular to Bruckner Boulevard at point  $P$ . An equation of the Bruckner Boulevard line is  $y = -\frac{3}{4}x$ . Find an equation of the line for the bike path.



See Problem

Rewrite each equation in slope-intercept form, if necessary. Then determine whether the lines are parallel. Explain.

23.  $y = -x + 6$   
 $x + y = 20$

24.  $y - 7x = 6$   
 $y + 7x = 8$

25.  $3x + 4y = 12$   
 $6x + 2y = 6$

26.  $2x + 5y = -1$   
 $10y = -4x - 20$

Rewrite each equation in slope-intercept form, if necessary. Then determine whether the lines are perpendicular. Explain.

36.  $y = -x - 7$   
 $y - x = 20$

38.  $2x - 7y = -42$   
 $4y = -7x - 2$