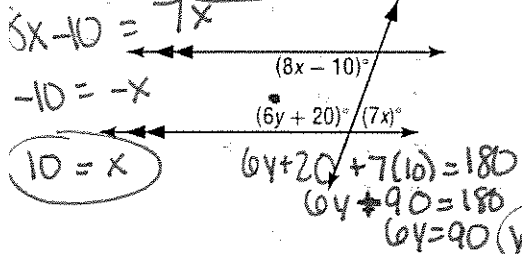
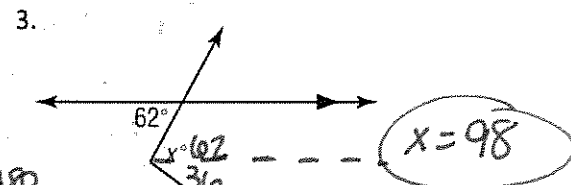
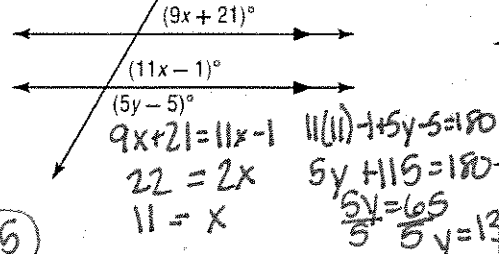


Find the value of x and y

1. $X=10; Y=15$



2. $X=11; Y=13$



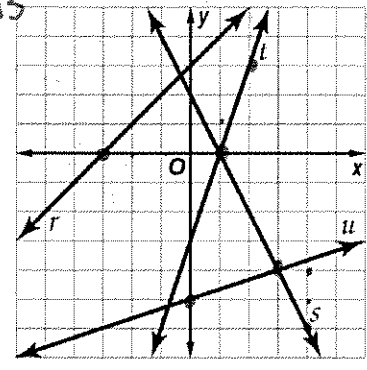
Write an equation in slope-intercept form for each line shown or described.

4. r $m=1 (-3,0)$
 $y-0=1(x+3)$
 $y=x+3$

5. s $m=-2 (1,0)$
 $y-0=-2(x+1)$
 $y=-2x+2$

6. t $m=3 (1,0)$
 $y-0=3(x-1)$
 $y=3x-3$

7. u $m=1/3 (0,-5)$
 $y-5=1/3(x-0)$
 $y-5=1/3x$
 $y=1/3x+5$



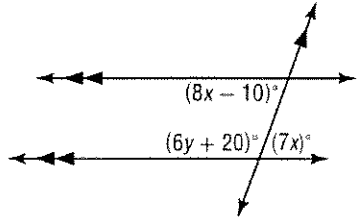
Write equations in point-slope form of the line.

8. contains (2, 5) and (3, 8)
 $m = \frac{8-5}{3-2} = \frac{3}{1}$
 $y-5=3(x-2)$ or $y-8=3(x-3)$

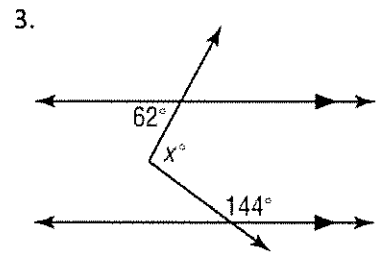
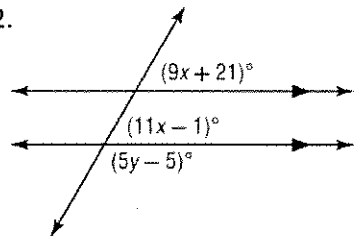
9. x-intercept is -2, y-intercept is -1
 $m = \frac{-1-0}{0+2} = -\frac{1}{2}$
 $y-0=-1/2(x+2)$ or $y+1=-1/2(x-0)$

Find the value of x and y

1. $X=10; Y=15$



2. $X=11; Y=13$



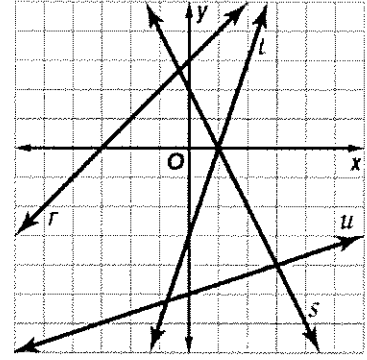
Write an equation in slope-intercept form for each line shown or described.

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 $y-0=1(x+3)$
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 $m = \frac{-1-0}{0+2} = -\frac{1}{2}$
 $y-0=-1/2(x+2)$ or $y+1=-1/2(x-0)$

Write equations in slope-intercept form of the line. Then graph the line.

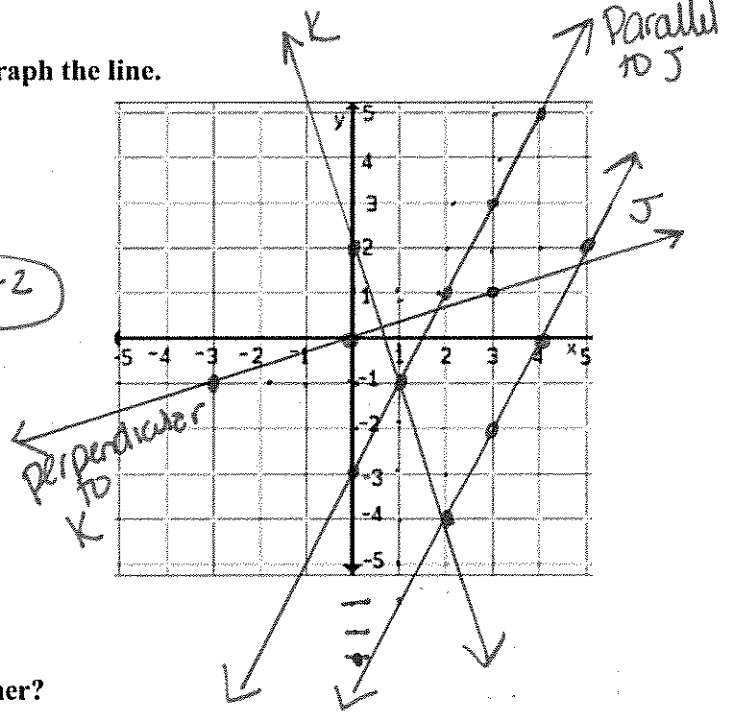
10. line j ; $m = 2$, $(5, 2)$
 $y - 2 = 2(x - 5)$
 $y - 2 = 2x - 10$

$y = 2x - 8$

11. line k ; $m = -3$, $(2, -4)$
 $y + 4 = -3(x - 2)$
 $y + 4 = -3x + 6$
 $y = -3x + 2$

12. the line parallel to line j that contains $(1, -1)$
 $m = 2$
 $y + 1 = 2(x - 1)$
 $y + 1 = 2x - 2$
 $y = 2x - 3$

13. the line perpendicular to line k that contains $(0, 0)$
 $m = \frac{1}{3}$
 $y - 0 = \frac{1}{3}(x - 0)$
 $y = \frac{1}{3}x$



Are the following equations parallel, perpendicular, or neither?

14. $y = 2x + 8$ & $y = \frac{1}{2}x - 11$
 Neither

15. $3x + 4y = 16$ & $4x - 3y = 21$
 $4y = -3x + 16$ & $-3y = -4x + 21$
 $y = -\frac{3}{4}x + 4$ & $y = \frac{4}{3}x - 7$
 Perpendicular

16. $A(1, -5), B(6, -5), D(4, 0), F(4, -1)$
 $\frac{-5 - (-5)}{6 - 1} = \frac{0}{5}$ $\frac{-1 - 0}{4 - 4} = \frac{-1}{0}$

16. Slopes: \overline{AB} : 0 \overline{DF} : undefined Relationship: perpendicular.

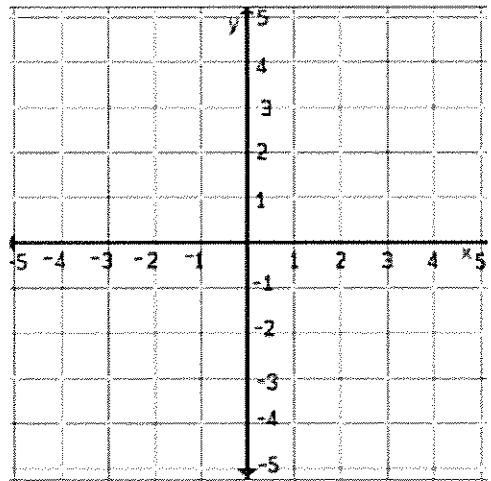
Write equations in slope-intercept form of the line. Then graph the line.

10. line j ; $m = 2$, $(5, 2)$

11. line k ; $m = -3$, $(2, -4)$

12. the line parallel to line j that contains $(1, -1)$

13. the line perpendicular to line k that contains $(0, 0)$



Are the following equations parallel, perpendicular, or neither?

14. $y = 2x + 8$ & $y = \frac{1}{2}x - 11$

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16. $A(1, -5), B(6, -5), D(4, 0), F(4, -1)$

16. Slopes: \overline{AB} : _____ \overline{DF} : _____ Relationship: _____