

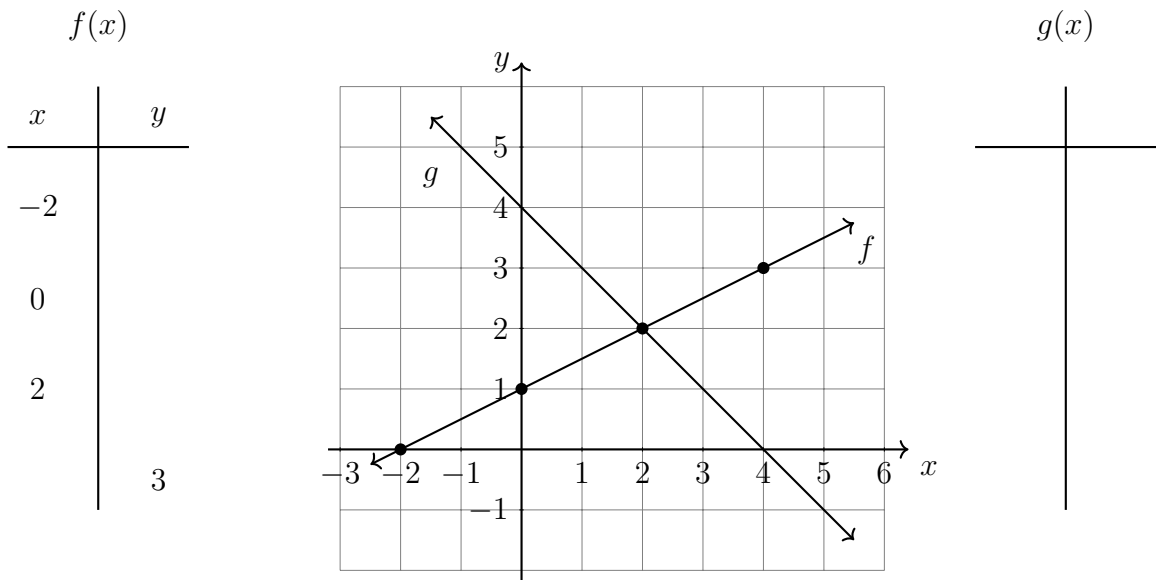
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### 6.7 Classwork: Systems of linear equations

HSG.REI.C.6

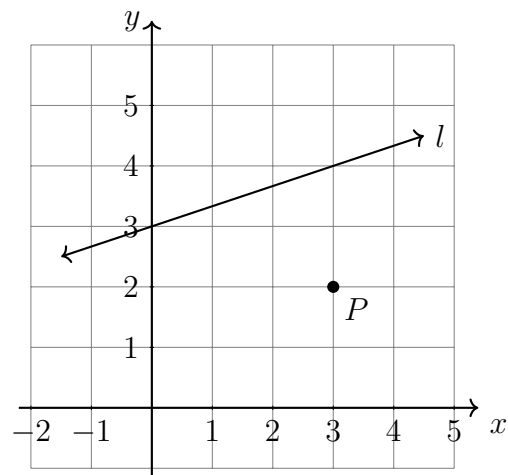
1. Two lines are graphed below.

- Complete the T-tables for each.
- Write down the equations for each.



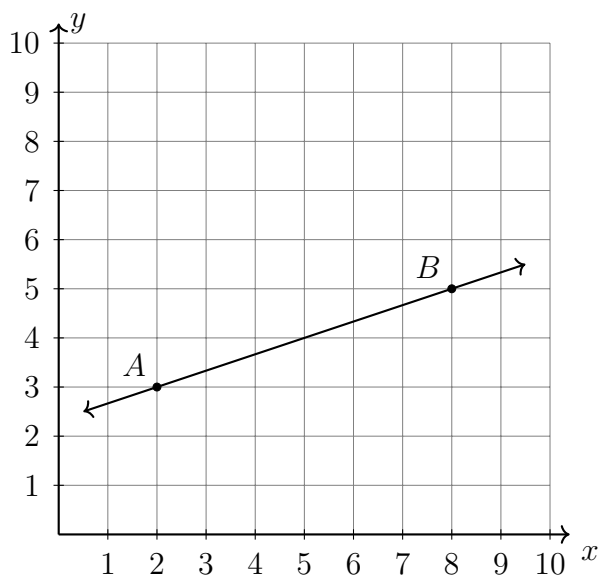
2. The line  $l$  is graphed at right.

- Write down the line's slope.  
 $m =$
- Write down its  $y$ -intercept.  
 $b =$
- Write down the equation of the line.
- Draw a line parallel to  $l$  through point  $P$ . (use a straight edge for full credit)



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3. Find the slope of the line through the points  $A(2, 3)$ ,  $B(8, 5)$ .



4. Find the slope of the line through the points  $(3, -2)$  and  $(-3, 2)$ .

5. Write the linear equation  $y - 5 = \frac{2}{5}(x - 10)$  in the form  $y = mx + c$ .

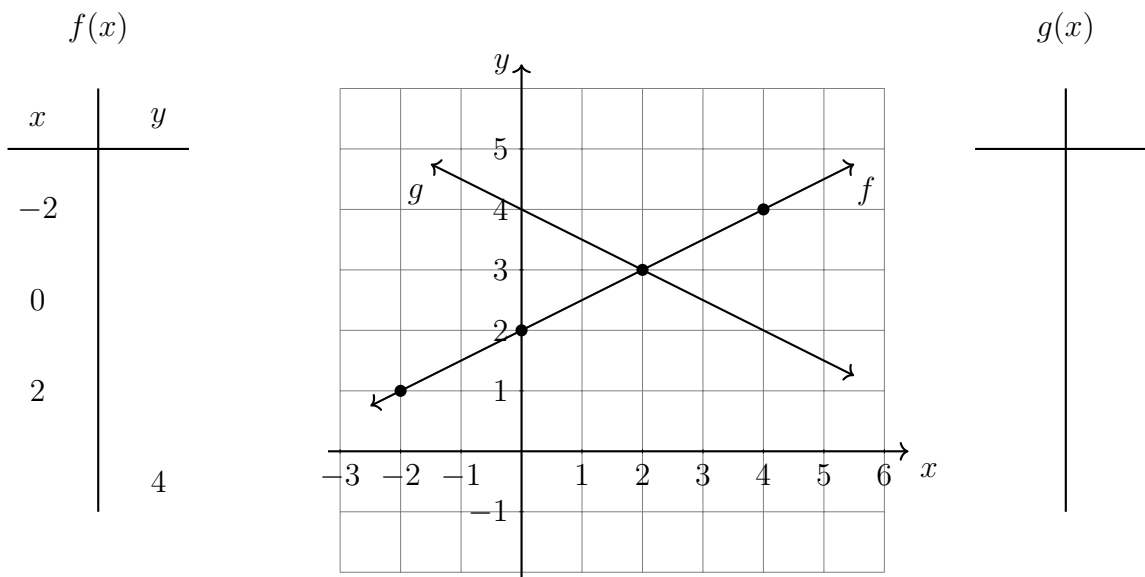
6. Is the point  $(-4, 1)$  on the line  $y = \frac{1}{2}x + 3$ ? Support your answer algebraically.

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7. Two lines are graphed below.

(a) Complete the T-tables for each.

(b) Write down the equations for each.



8. The line  $l$  is graphed at right.

(a) Write down the line's slope.

$m =$

(b) Write down its  $y$ -intercept.

$b =$

(c) Write down the equation of the line.

(d) Draw a line parallel to  $l$  through point  $P$ . (use a straight edge for full credit)

