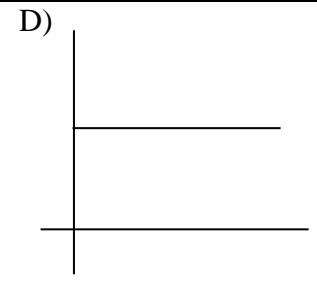
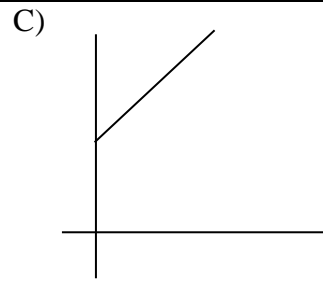
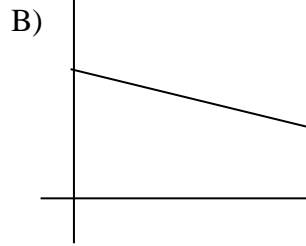
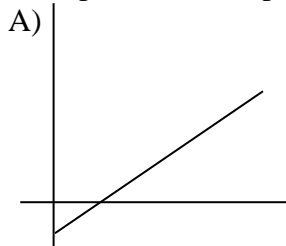


1. The amount of food remaining, f , in pounds after d days is given by $f = \frac{-1}{4}d + 50$.
- How much food is left after 36 days?
 - When will there be 20 pounds of food left?
 - Determine which graph shown below could represent this situation.

2. The total cost, C , of having a repair person come to your house for h hours is given by $C = 30h + 80$.
- How many hours of work can you get if you have \$200 to spend?
 - How much does it cost to have 8 hours of work done?
 - Determine which graph shown below could represent this situation.

Multiple choice for part 'c' of #1 and 2.



3. Determine if each point is a solution to $3x - 2y = 19$

a) $(5, -2)$

b) $(-1, 11)$

$3(\quad) - 2(\quad) = 19$



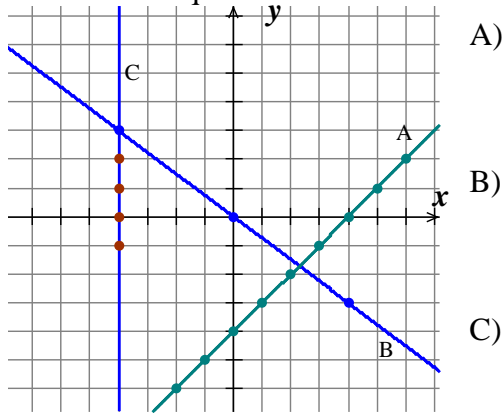
4. Find the slope of the line for each.

a) $(15, -2)$ and $(8, -3)$

b) $x = 5$

c) $(2, 6)$ and $(-5, 6)$

5. Find the equation of each line.



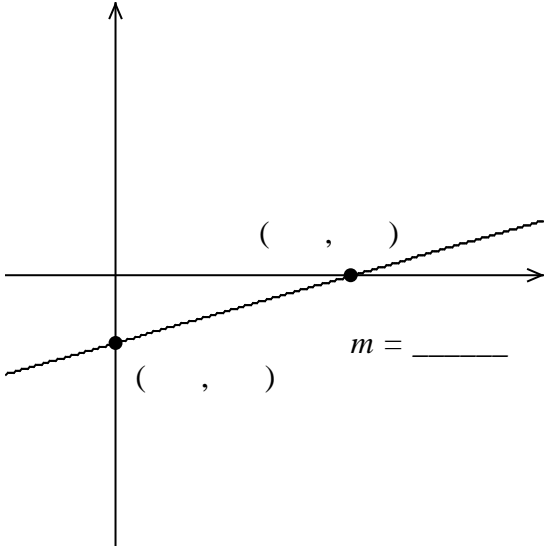
6. Which statement is true about the following lines?
 $-3x + 4y = 24$ $-4x + 3y = 18$

- The lines have the same y-intercept
- The lines are parallel.
- The lines have the same x-intercept
- The lines are perpendicular.

Simplify each expression if possible. Some cannot be simplified at all. Problems involve different skills including combining like terms, distributive property, order of operations, or laws of exponents.

7. $y + y$	8. $(y)(y)$	9. $3a - 6a$	10. $a - 4a$
11. $2 + 3b$	12. $2(3b)$	13. $2(b + 3)$	14. $(-4b)(b)$
15. $3b - 2(b + 5)$	16. $\left(\frac{5}{4}\right)^2 - \frac{3}{8}$	17. $5 + 3(6 - 1)^2$	18. $\frac{-2}{3}x + \frac{3}{4}x$
19. $5 + 2(3x - 8) - 7x - 10$	20. $4 - 7(2x + 8) - 3 + 6x$	21. $3 + \frac{2}{3}(4x - 5)$	

22. Lines and Intercepts:

<p>a) Find the equation of the line that passes through $(21, -4)$ and $(56, 6)$.</p> <p>b) Find the x-intercept of the line.</p>	<p>c) This is a graph of the line from part (a). Label the slope, the y-intercept, and the x-intercept on the graph.</p> 
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