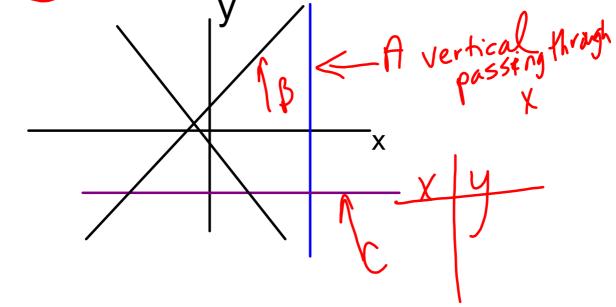
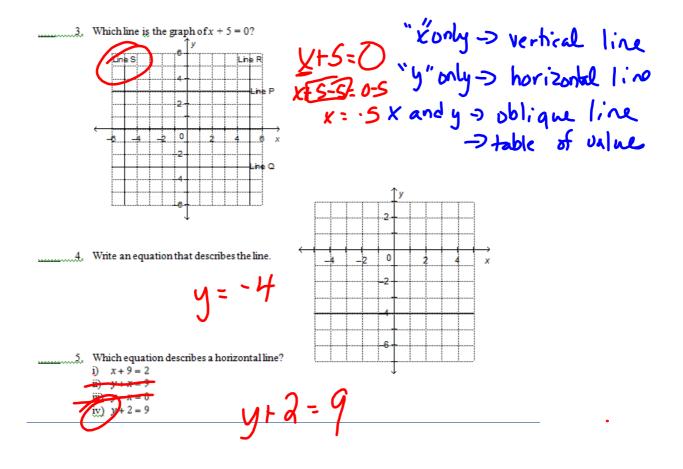
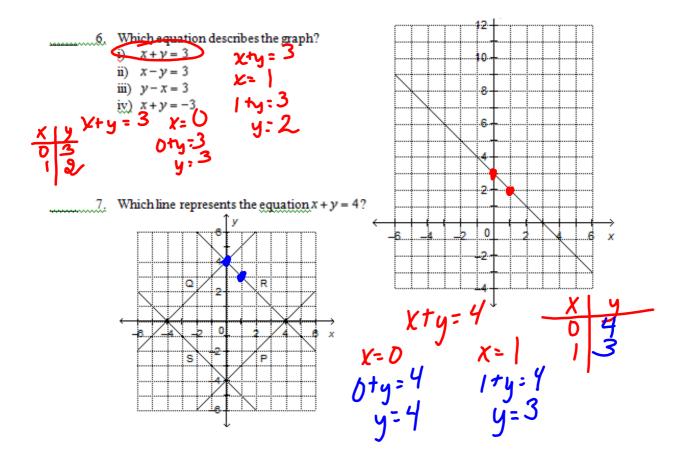
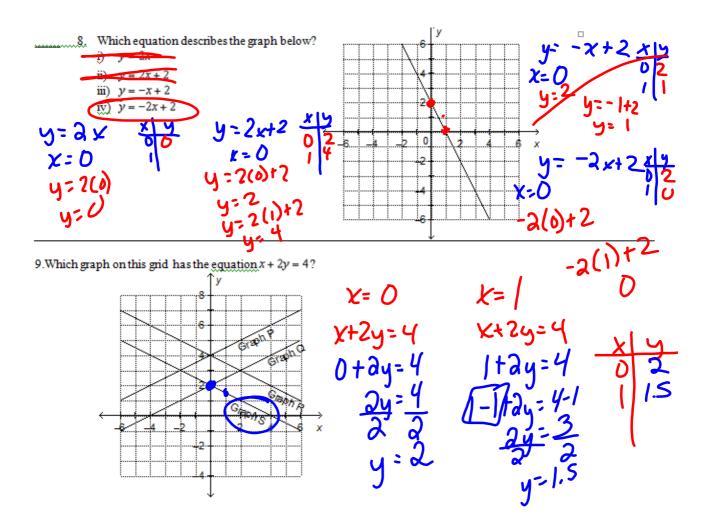
## Unit 4 Linear Relations



- £ t Figure,f 2 3 5 1 4 2 4 3 6 4 8 5 10 t=25 Number of Triangles, t 8 10 2 4 6  $y = 9 - 5x \qquad y = 9 - 5y$  $y = 9 - 5(2) \qquad y = 9 - 5y$  $y = 9 - 5(2) \qquad y = 9 - 5(y)$  $9 - 10 \qquad y = 9 - 20$ - 1, Complete the table of values. y = 9 - 5x8 2 4 6 х 21 -3 y χ= 6
- The pattern in this table continues. Determine the expression that relates the number of triangles to the fig number.







A: -35n+540

10. Shirley has \$540 in her bank account. She withdraws \$35 each week to cover her expenses.

A)Write an equation that relates the amount of money in her account, A dollars, after n weeks.

A = 540 - 35r

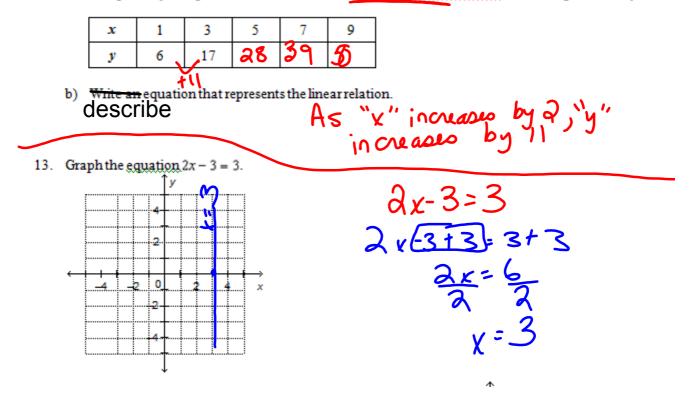
A= 540+ -350

b) Determine the amount of money in Shirley's account after 8 weeks. A: 540-35(8)

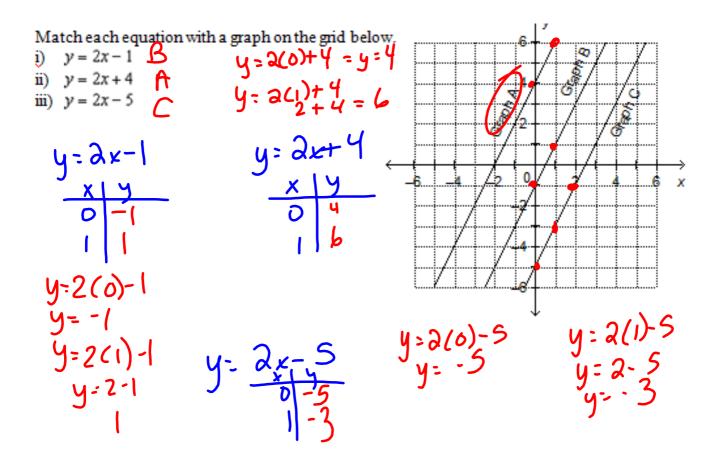
= 5 40 - 280 = 260 11. Dorina is having a party. She estimates that she will need 5 sandwiches for each guest, and 12 extra sandwiches for unexpected guests.

a) Write an equation that relates the total number of sandwiches, T, to the number of guests, p.  $T = 5\rho + 12$   $T = 12t5\rho$ 

b) How many sandwiches will Dorina need for 16 guests? T = 5(16) + 12 = 80 + 12= 92



12. This is a partially completed table of values for a linear relation. Determine the missing values of y.



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