Quiz 1/17/2014

Write the equation in mathematical terms (words):
1. $2x = 14$
2. $y/4 = 5$
3. $3x + 5 = 23$
4. $7a - 3 = 11$

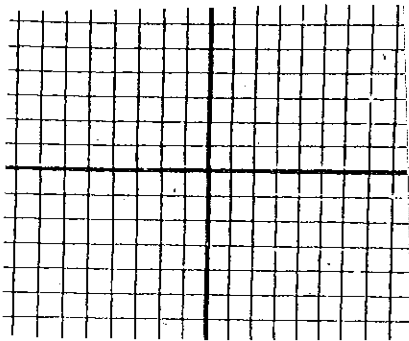Write and solve the equation for the variable using a diagram:
5. $c + 4 = 10$
6. $2u + 4 = 10$

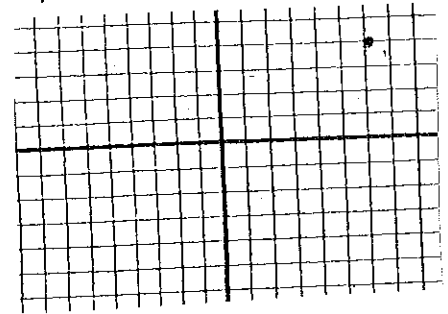Solve the equation for the variable using the algebraic method:
7. $r + 4 = 26$
8. $q - 12 = 8$
9. $7x = 42$
10. $y/13 = 4$
11. $9x + 45 = 45$
12. $(4a - 4)/2 = 8$

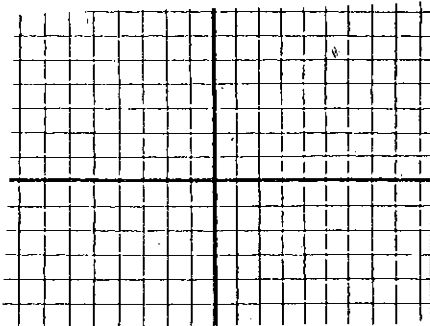Graph the following lines:
13. $y = 2x + 5$

14. $y = 3/4x - 3$

15. The table below shows a linear relationship between x and y. Plot the line, and find the missing value.

X	2	3	4	5	6
Y	10	7		1	-2

16. The table below shows the cost of buying different numbers of tickets to a talent show. Plot the data, write the equation for the line, and show how you would find the cost of 6 tickets in two different ways.

Number of tickets (t)	1	2	3	4
Cost in dollars (c)	3	6	9	12