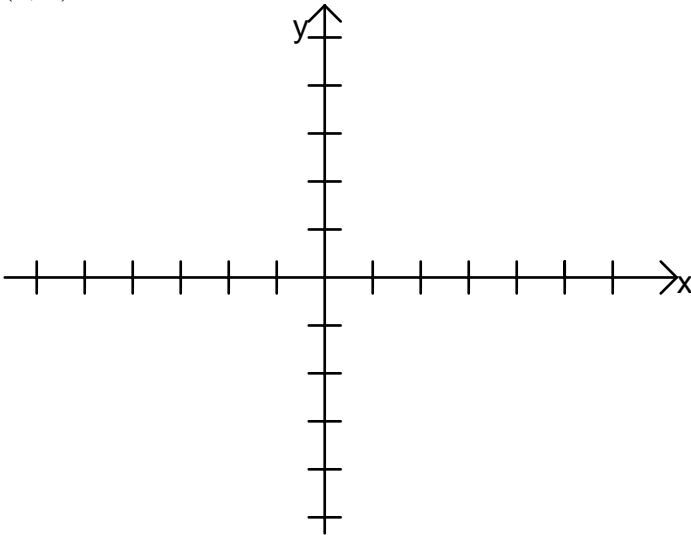


(8pts.) 1. Solve for x: $T - x = 5ax + 10a$

(8 pts.) 2. Solve for x: $5 - 3[2x - (x - 1)] = 2 + 2x - 2[6 - (2 - x)]$

(4 pts.) 3. Plot the following points on the graph below: $(5, -2), (0, -3), (-3, 2), (4, 5)$



(10 pts.) 4. Which of the following points lie on the line $6x - 2y = 8$? (Circle all that apply.)

(a.) $(3, 5)$

(b.) $(1, -1)$

(c.) $(5, 4)$

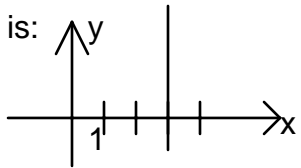
(d.) $(-2, 5)$

(e.) $(0, -4)$

(12 pts.) 5. True or False

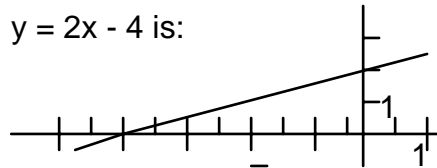
____(a.) The graph of the line

$x = 3$ is:



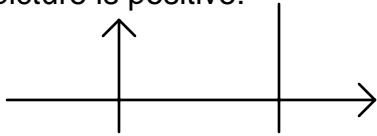
____(b.) The graph of the line

$y = 2x - 4$ is:



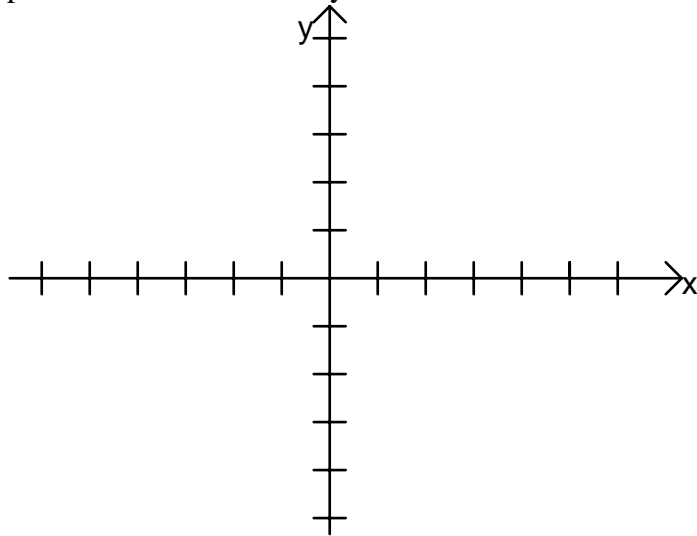
____(c.) The slope of the line in the

picture is positive:



____(d.) A horizontal line has a slope of zero.

(8 pts.) 6. Graph the following line. Label your y-intercept and at least one other point on the line. $2x + 6y = 8$



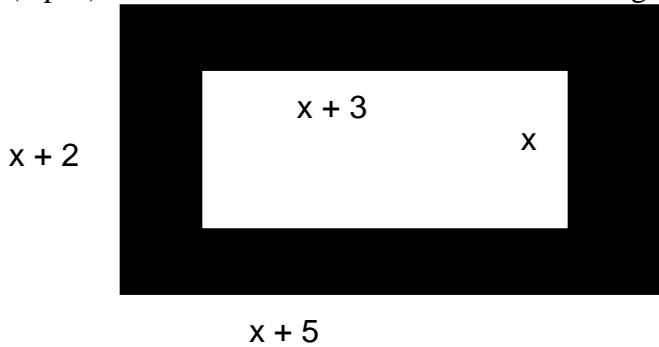
(8 pts.) 7. Find the equation of the line that has slope $5/2$ and goes through the point $(0, -5)$.

(8pts.) 8. Find the equation of the line that goes through the points $(3, 5)$ and $(3, -2)$.

(8pts.) 9. Find the equation of the line that is parallel to the line $y = \frac{3}{4}x - 2$ and goes through the point (1, 3).

(8 pts.) 10. Find the equation of the line that is perpendicular to the line $y = 2x$ and goes through the point (0, 5).

(8 pts.) 11. Find x if the area of the shaded region is 34 square units.



(10 pts.)12. (a.) Acme car rental charges \$17.00 per day plus 22 cents per mile. Write an equation for the cost of the car rental (y) in terms of the number of miles driven (x).

(b.) How many miles can be driven for a cost of \$44.50 ?