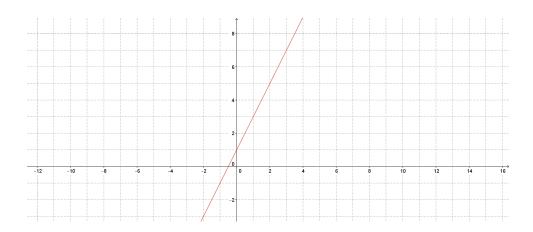
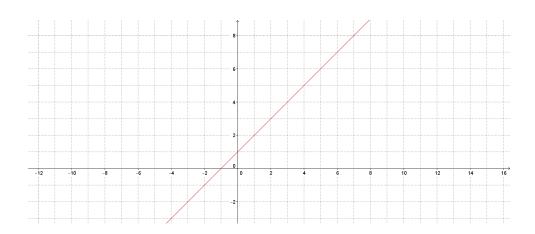
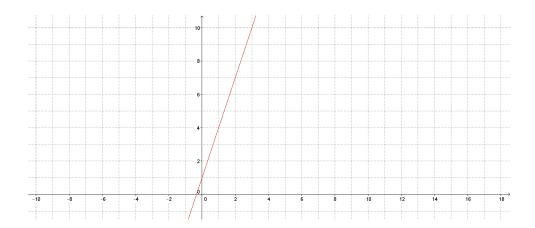
Write the equations of the following lines in the form y = mx + c

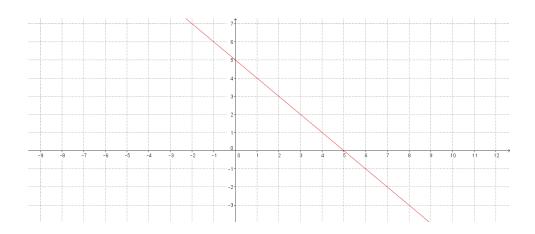
1. .



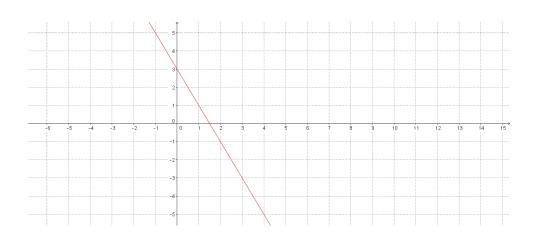
2. .

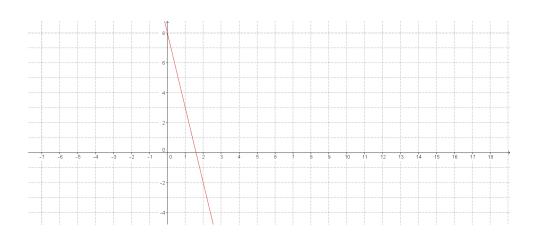


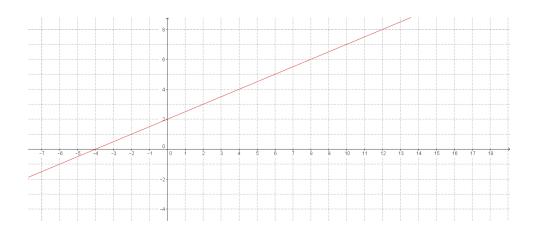




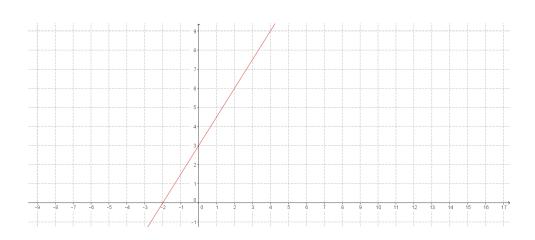
5. .

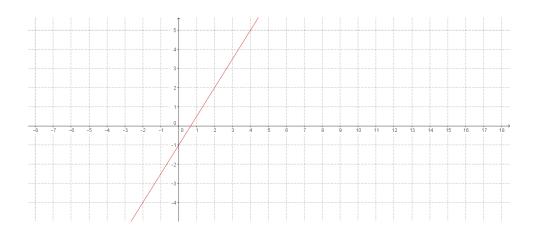


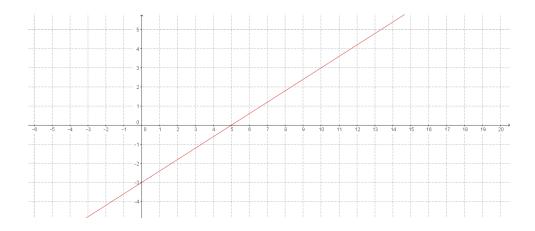




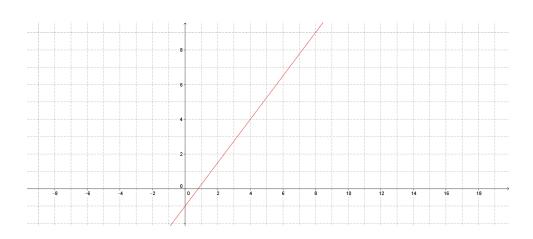
8. .

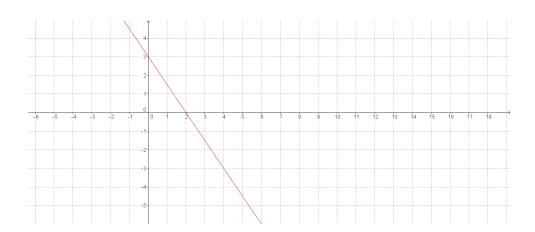


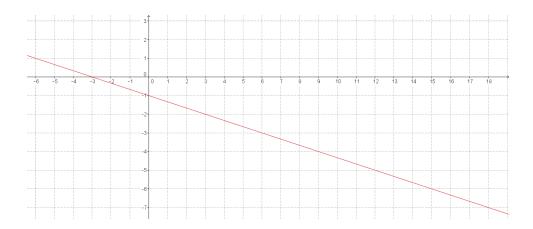




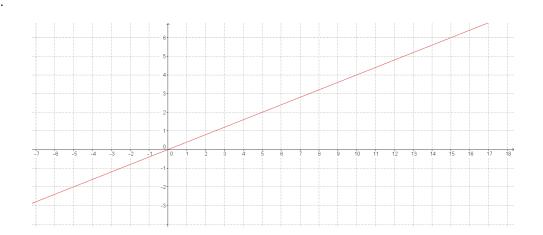
11. .







14. .



15. Write the equations of the following lines in the form y = mx + c. Identify the slope and y-intercept of each line. Then draw a rough sketch of each line.

i.
$$x + y - 2 = 0$$

ii.
$$4x + 2y - 6 = 0$$

iii.
$$3x - y + 9 = 0$$

iv.
$$6x - 3y + 9 = 0$$

v.
$$3x + 2y + 8 = 0$$

vi.
$$5x - 3y - 4 = 0$$

vii.
$$2x - 3y - 4 = 0$$

viii.
$$x + 2y - 8 = 0$$

ix.
$$x - 3y + 7 = 0$$

$$x. \ 5x - 2y + 5 = 0$$

16. Determine whether the following pairs of lines are parrallel, perpendicular or neither;

(a)
$$2x - y + 7 = 0$$
 and $y = \frac{1}{2}x + 3$

(b)
$$y = \frac{3}{2}x - 5$$
 and $2x + 3y + 5 = 0$

(c)
$$y = -\frac{1}{2}x - 4$$
 and $x - 2y - 5 = 0$

(d)
$$3x - 4y + 2 = 0$$
 and $y = -\frac{4}{3}x - 8$

(e)
$$3x + y - 5 = 0$$
 and $y = -\frac{1}{3}x + 1$

(f)
$$y = \frac{4}{5}x - 2$$
 and $4x - 5y + 7 = 0$

- 17. What is the slope of the line k: 3x 2y + 7 = 0? Find the equation of the line containing the point (2,2), which is parallel to the line k.
- 18. Find the equation of the line which is parallel to 2x + y 4 = 0 and contains the point (-1, 4).
- 19. What is the slope of the line 3x 5y + 1 = 0? Find the equation of the line containing the point (3, -2), which is parallel to the line 3x 5y + 1 = 0.
- 20. Find the equation of the line perpendicular to 2x + 3y 5 = 0 which contains the point (-2, -3).
- 21. Find the equation of the line perpendicular to x + 3y 3 = 0 which contains the point (0,3)