

Name:

Result:

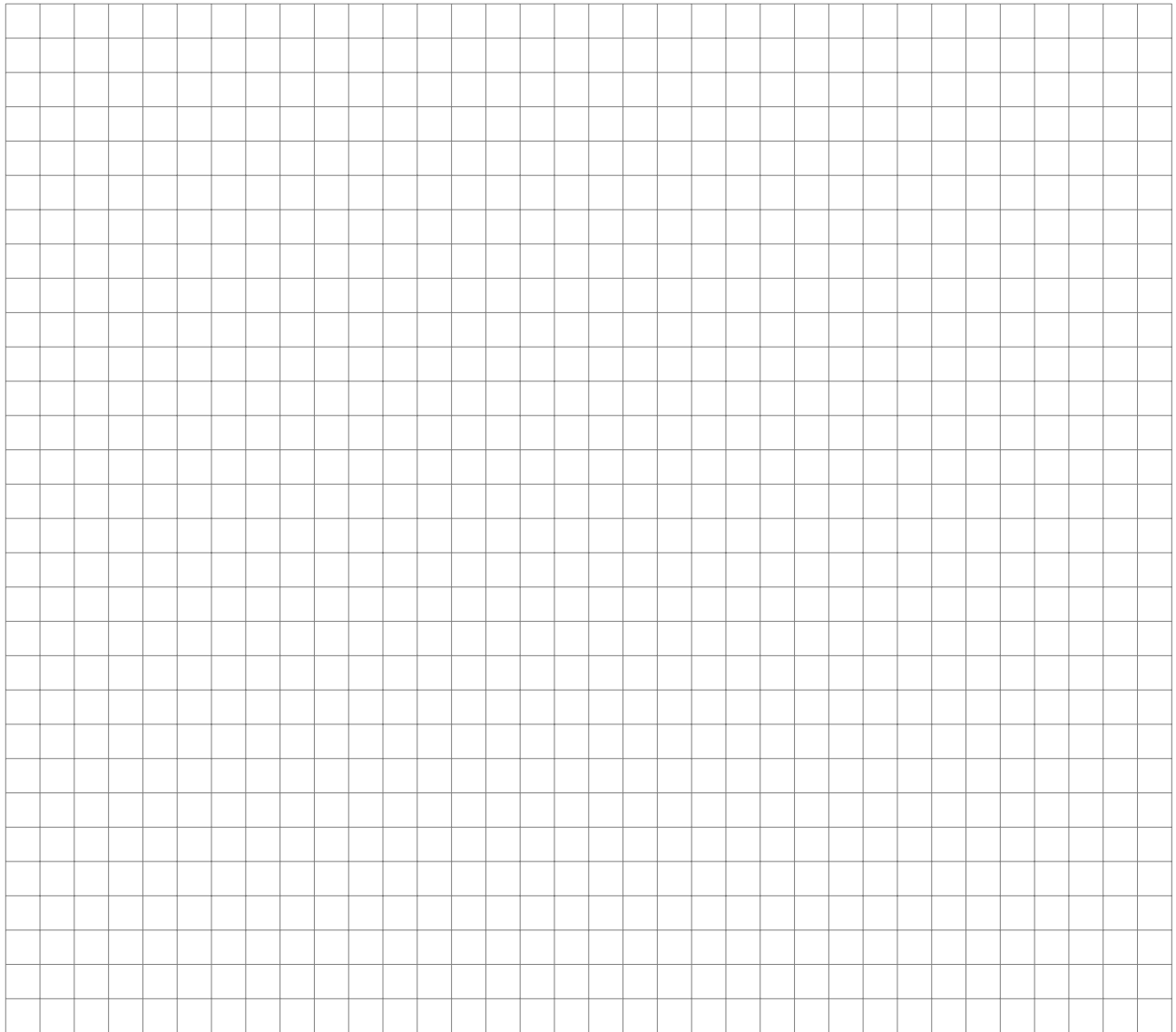
Group A

1.

(6 points)

Consider points $A(-1, 1)$ and $B(5, 3)$.

- (a) Find the equation of the line l passing through A and B .
- (b) Find the equation of the line k parallel to l and passing through $(3, 4)$.
- (c) Find the equation of the perpendicular bisector of the line segment AB .



2.*(6 points)*Consider the line with equation $4x + 3y = 24$

- (a) Find the axes intercepts of the line.
- (b) Determine whether the following points lie on the line:
- (i) $(3, 4)$ (ii) $(-4, 12)$ (ii) $(5, -5)$
- (c) Find c such that $(c, -4)$ lies on the line.
- (d) Sketch the line, showing your results from previous parts.

