## MATH 19501 Quiz 6 - Winter 25

Name:	EMPLID:	
and indicate the final ans	You must show all of your work as neatly and clearly as poswer in the provided region for each non-graph question. Suld sketch your graph on the grid provided.	
1. Let $P = (1, 5)$ and $Q = (1, 5)$	= (4,11) be points on line $l$ .	
(a) Find the equation of answer in $y = mx + b$ for	f a line that passes through the points $P$ and $Q$ . Writem.	e your
Write your answer in the	box below:	
(b) Sketch the graph of li	ine $l$ . Label all intercepts on your graph.	

- 2. Let  $f(x) = x^2 + 4x + 3$ .
- (a) Rewrite f(x) in standard form by completing the square or you can use the formula  $x = \frac{-b}{2a}$ .

Write your answer in the box below:

$$f(x) =$$

(b) Sketch the graph of  $f(x) = x^2 + 4x + 3$ . Label the vertex and x-intercepts on your graph.

