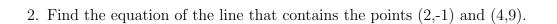
Math 32 Quiz 3
GSI: Jeremy Meza
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Name:	

- 1. Let  $f(x) = -x^2 + 8x 11$ .
  - (a) Graph f.
  - (b) Does f have a minimum, a maximum, both, or neither?
  - (c) If f has a minimum or maximum, find the x and y coordinates of that min or max.



3. Write  $27^{4000}$  as a power of 3.

4. Simply the following expression by writing it as a power of a single variable:

$$t^4(t^3(t^{-2})^5)^4$$

5. True or False?

$$(x+y)^2 = x^2 + y^2$$