

Mathematics 300

Quiz 15

Name: _____

You must show your work to get full credit.

1. Expand the following $(x - 1)^4$.
 $(x - 1)^4 =$ _____

2. We know that $\sqrt{2}$ is irrational. Use this fact and a proof by contradiction to show that $3\sqrt{2} - 1$ is irrational.