

## MATH 105: QUIZ 2

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**NOTE:** Write your name *and* section number. Each question is worth 10 points. You have 30 minutes to do the quiz, which is closed book. Do not use computers or any other devices.

**Question 1 :** Find the equation for the plane containing the point  $(17, 0, 1)$  with normal direction  $(17, 9, 3)$ .

**Question 2 :** Evaluate  $\lim_{x \rightarrow 1} \frac{x^3 - 3x^2 + 3x - 1}{2x - 2}$ .

**Question 3 :** Let  $f(x, y) = \exp(2 - x - y)$ . Find the level set of value 1 of the function  $f(x, y)$ .