Present neatly. Justify for full credit. No Calculators.

Name _____ Score ____ ~10 minutes / A

- 1. Find the equation of all lines through the origin that are tangent to the curve $y = x^3 9x^2 16x$.
- 2. Use the definition of the derivative to find $\frac{d}{dx} \left(\frac{1}{\sqrt{x-3}} \right)$.

Fiesta 11

Present neatly. Justify for full credit. No Calculators.

Name _____ Score ____ ~10 minutes / F

- 1. Find all values of x for which the tangent line to the curve $y = 2x^3 x^2$ is perpendicular to the line x + 4y = 10.
- 2.Use the definition of the derivative to find $\frac{d}{dx} \left(\frac{x-\pi}{x+m} \right)$.

Fiesta 11