

Name:

**Section 5.1 – Exponents – PC 12 Style**

1. Simplify the following

$$\frac{16^{(2x-1)}}{4(4x-3)}$$

2. Solve for the variable

$$\left(\frac{1}{9}\right)^{(2x-1)} = 27^{(2-x)}$$

3. Graph the following exponential. Identify Horizontal Asymptote, Domain, Range, and at least three points.

$$y = 2^{x-1} - 4$$

