

Name:

**Section 2.4 – Transformations**

1. Write the equation of the transformed function

<p>If <math>f(x) = x^3 - x^2 - x + 1</math> and we have a reflection in the <math>y - axis</math></p>	<p>If <math>f(x) = 2x^2</math> and we have a horizontal expansion by a factor of 2</p>
<p>If <math>f(x) = 4x - 5</math> and we have a vertical shift down 7 units</p>	<p>If <math>f(x) = -x^3 + 2x^2 - 4</math> and we have a reflection in the <math>x - axis</math></p>

2. If  $(3, -5)$  is on  $f(x)$  which point is on:

a)  $|f(x)|$

b)  $\frac{1}{f(x)}$

3. Graph the following transformation given the original graph.

Find the desired Composite Functions and State the Domain:

