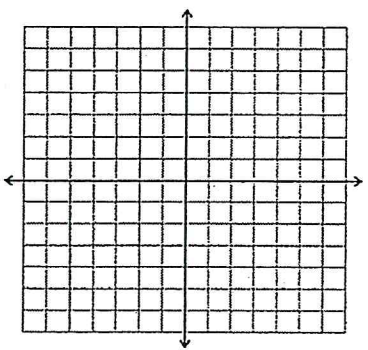
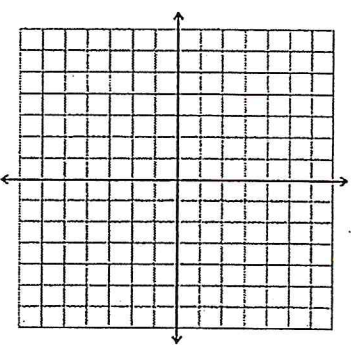
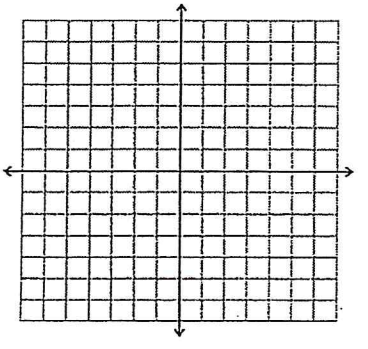
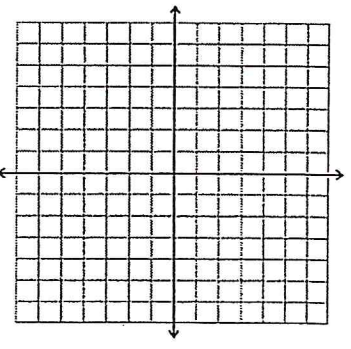


UNIT 2: FAMILIES OF FUNCTIONS

1. NC Given the family name, find the parent equation and graph it. Determine the domain, range, and end behavior.

2.
a)

<p>Family: <i>Polynomial (even)</i> Equation: _____</p>  <p>Domain: Range: End behavior:</p>	<p>Family: <i>Radical (odd)</i> Equation: _____</p>  <p>Domain: Range: End behavior:</p>
<p>Family: <i>Absolute Value</i> Equation: _____</p>  <p>Domain: Range: End behavior:</p>	<p>Family: <i>Exponential (Growth)</i> Equation: _____</p>  <p>Domain: Range: End behavior:</p>

b)

<p>$a > 1$ Examples: (One reflected, one not) Effect:</p>	<p>$h \geq 0$ Examples: Effect:</p>	<p>$k \leq 0$ Examples: Effect:</p>
<p>$0 < a < 1$ Examples: (One reflected, one not) Effect:</p>	<p>$h \leq 0$ Examples: Effect:</p>	<p>$k \geq 0$ Examples: Effect:</p>
<p>$a < 0$ Examples: Effect:</p>		

2b) Give examples of equations with a, b, k . Describe the transformation that results.