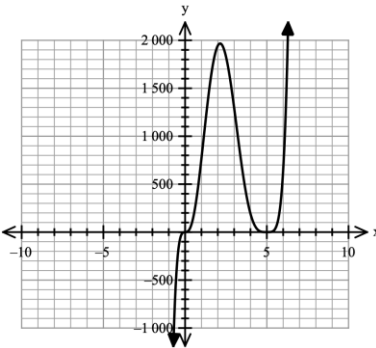
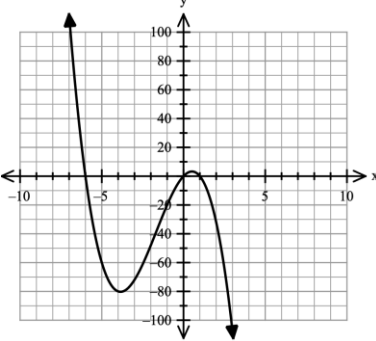
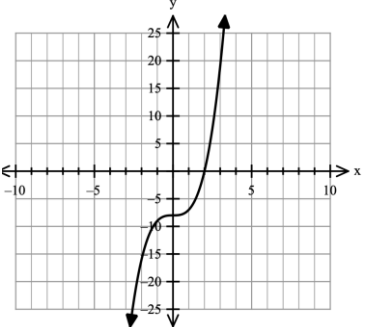


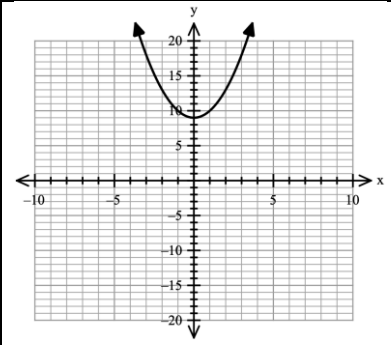
SM3 4.3 odd Answers

Equation	Sketch Graph	Extension												
<p>1.</p> <p># of zeros: 7</p> <p>What are the zeros? $x = 0, 5$</p>	 <p># of x-intercepts: 2 x-intercepts: (0,0), (5,0)</p>	<p>The number of zeros/ x-intercepts don't match... Explain why?</p> <p>The number of zeros comes from the equation. The number of zeros include the sum of the multiplicity of each factor. The x-intercepts are the real zeros you get after solving.</p>												
<p>3.</p> <p># of zeros: 3</p> <p>What are the zeros? $x = 0, -6, 1$</p>	 <p># of x-intercepts: 3 x-intercepts: (-6,0), (0,0), (1,0)</p>	<p>Fill in the information in the table.</p> <table border="1" data-bbox="1089 793 1536 974"> <thead> <tr> <th>Zero</th> <th>Multiplicity</th> <th>Touch/Cross</th> </tr> </thead> <tbody> <tr> <td>-6</td> <td>1</td> <td>cross</td> </tr> <tr> <td>0</td> <td>1</td> <td>cross</td> </tr> <tr> <td>1</td> <td>1</td> <td>cross</td> </tr> </tbody> </table> <p>Identify the end behavior</p> $\lim_{x \rightarrow -\infty} f(x) = \infty$ $\lim_{x \rightarrow \infty} f(x) = -\infty$	Zero	Multiplicity	Touch/Cross	-6	1	cross	0	1	cross	1	1	cross
Zero	Multiplicity	Touch/Cross												
-6	1	cross												
0	1	cross												
1	1	cross												
<p>5.</p> <p># of zeros: 3</p> <p>What are the zeros? $x = 2, -1 + \sqrt{3}i, -1 - \sqrt{3}i$</p>	 <p># of x-intercepts: 1 x-intercepts: (2,0)</p>													

7.

of zeros: 2

What are the zeros? $x = 3i, -3i$



of x-intercepts: none

x-intercepts: NA