Name

1-5A Lesson Master

Questions on SPUR Objectives
See pages 60–63 for objectives.

REPRESENTATIONS Objectives K, L, M

In 1 and 2, use the table to answer the questions.

1. Use a graphing calculator to complete the table of values for $y = 0.34x + (1.93 - x)$.

   Use your graphing calculator to find the value of $y = 0.34x + (1.93 - x)$ when $x = 20$.

   _____

x	$0.34x + (1.93 - x)$
1	1.27
11	
21	
31	
41	

2. Graph $y = x^3 - 3x^2 + 3x - 1$ on your calculator using the standard window.

   a. Sketch the graph in the box.

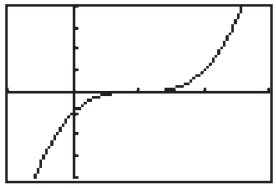
   b. Adjust the window so that it looks like the graph below. Find the new min and max values.

   Xmin: _____

   Xmax: _____

   Ymin: _____

   Ymax: _____



3. Use a graphing calculator to determine whether the expressions 1 and $-(x + 1)^2$ seem to be equivalent. Explain your reasoning.

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4. Graph $y = 4(x - 1)(x - 2.5)(x + 5)$ on your calculator using the standard window.

   a. Explain why this is not an appropriate window.

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   b. Find an appropriate window and describe it with two inequalities.

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