

Week #3 suggested homework key

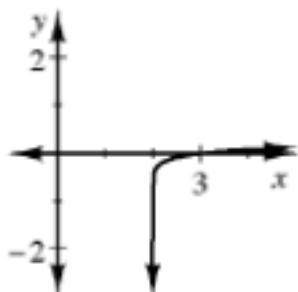
6-13. See below:

a. x

b. $\frac{6}{x^2-3x+2}$

6-15. Heather is correct, because a 4% decrease does not “undo” a 4% increase.

6-27. It is the $\log_5(x)$ graph shifted 2 units to the right. See graph below.



6-29. See below:

a. -7

b. -102

c. -102

d. -132

6-38. $y \leq -x + 4, y \geq \frac{1}{3}x$

6-52. See below:

a. $\approx \$140,809.30$

b. ≈ 24.2 years

c. $\approx \$164,706.25$