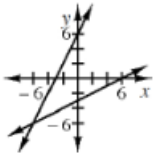


Week 1 – suggest practice key
Alg 2b

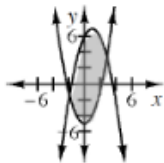
5-8. See below:

a. $y = 2(x + 3)$

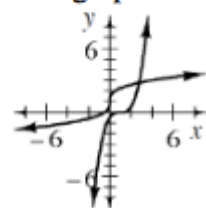
b. Yes, $y = x$. See graph below.



5-13. The area between an upward parabola with vertex $(0, -5)$ and the downward parabola with vertex $(1, 7)$. See graph below.



5-26. See graph below.



5-27. See below:

a. $y = \frac{1}{3}(x + 8)$

b. $y = 2(x - 6)$

c. $y = 2x - 6$

5-31. See below:

a. $\frac{x-3}{x(x-4)}$

b. $\frac{4}{x-2}$

c. 2

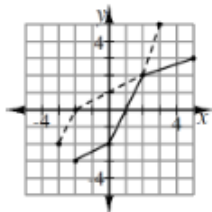
d. $\frac{x-1}{x+1}$

5-32. See below:

a. $f(x) \approx 1.5(1.048)^x$

b. $\sim \$425.04$

5-33. See graph below. For $f(x)$, domain: $-2 \leq x \leq 5$, range: $-3 \leq y \leq 3$; For $f^{-1}(x)$, domain: $-3 \leq x \leq 3$, range: $-2 \leq y \leq 5$



5-36. If she adds nothing else to the account and it just sits there making interest, she will have \$440.13 on her eighteenth birthday.

5-51. See below: **5-53. 70**

a. $y = \pm\sqrt{x-3}$

b. $y = 4(\sqrt[3]{x} - 6)$

c. $y = \frac{x^2+6}{5}$