

Homework: Operations and Intercepts  
Selected Answers

Honors PreCalculus

p. 24 (only find the x- and y- intercepts) 12, 17, 20, 21, 46, 50, 58  
p. 69-70 63(a-e), 69(b,c,f,g,h), 85, 87, 88

- p. 24
- 12. x-int:  $(b, 0)$ , y-int:  $(0, -b)$
  - 17. x-int:  $(2, 0)$  and  $(-2, 0)$ , y-int:  $(0, 4)$
  - 20. x-int:  $(2, 0)$ , y-int:  $(0, 5)$
  - 21. x-int:  $(2, 0)$  and  $(-2, 0)$ , y-int:  $(0, 9)$
  - 46. x-int:  $(-9, 0)$ , y-int:  $(0, 3)$  and  $(0, -3)$
  - 50. x-int:  $(2, 0)$  and  $(-2, 0)$ , y-int:  $(0, -8)$
  - 58. x-int:  $(2, 0)$  and  $(-2, 0)$ , y-int: none

p. 69

- 63a  $5x+1$ , D:  $(-\infty, \infty)$
- b.  $x+7$ , D:  $(-\infty, \infty)$
- c.  $6x^2 - x - 12$ , D:  $(-\infty, \infty)$
- d.  $\frac{3x+4}{2x-3}$ , D:  $(-\infty, 3/2) \cup (3/2, \infty)$
- e. 16

- 69b 1, D:  $(-\infty, 0) \cup (0, \infty)$
- c.  $\frac{1}{x} + \frac{1}{x^2}$  OR  $\frac{x+1}{x^2}$ , D:  $(-\infty, 0) \cup (0, \infty)$
- f. 1
- g.  $3/4$
- h. 2

85  $A = -4$

87.  $A = 8$ , f is undefined at  $x = 3$

88  $A = 1$ ,  $B = 2$