

**page 98 #55-67, 72-76, (47-54) answers**

55. Vertical asymptote @  $x = 1$  and horizontal asymptote @  $y = 1$
56. Vertical asymptote @  $x = 0$  and horizontal asymptote @  $y = 1$
57. Vertical asymptote @  $x = 3$  and horizontal asymptote @  $y = -1$
58. No vertical asymptotes. Horizontal asymptote @  $y = 0$
59. Vertical asymptotes @  $x = -1, 1$  and horizontal asymptote @  $y = 1$
60. No vertical asymptotes. Horizontal asymptote @  $y = 0$
61. Vertical asymptote @  $x = 2$  and horizontal asymptote @  $y = 0$
62. Vertical asymptote @  $x = -2, 2$  and horizontal asymptote @  $y = 0$
63. b            64. c            65. a            66. D            67. all of them
72. False.      73.b            74. c            75. c            76. e