

### SM3H 4.4 odd answers

1.  $\frac{1}{4}$

3.  $\frac{2}{3b}$

5.  $\frac{x^2-x-4}{x(x+2)(x^2-2x-1)}$

7a. -1

7b. -1

7c. 8

7d. 0

7e. 8

7f. -7

9a.  $h(x) = 3x - 1$  Domain =  $(-\infty, \infty)$

9b.  $h(x) = 3x + 1$  Domain =  $(-\infty, \infty)$

9c.  $h(x) = 9x + 8$  Domain =  $(-\infty, \infty)$

9d.  $h(x) = x - 2$  Domain =  $(-\infty, \infty)$

11a.  $h(x) = \frac{1}{\sqrt{x}-1}$  Domain =  $[0, 1) \cup (1, \infty)$

11b.  $h(x) = \sqrt{\frac{1}{x-1}}$  Domain =  $(1, \infty)$

11c.  $h(x) = \frac{x-1}{-x+2}$  Domain =  $(-\infty, 1) \cup (1, 2) \cup (2, \infty)$

11d.  $h(x) = \sqrt{\sqrt{x}}$  or  $\sqrt[4]{x}$  or  $x^{\frac{1}{4}}$  Domain =  $[0, \infty)$

13.  $\sqrt{73}$

15. 2

17. 0

19.  $T = \pm 2\pi \sqrt{\frac{l}{g}}$