

Business PreCalculus MATH 1643 Section 004, Spring 2014
Answer key:worksheet 17

1- Answers:

a. $\frac{1}{\sqrt{x+2}} + 2x + 1.$

b. $\frac{5}{2}.$

c. $\frac{\sqrt{3}}{9}.$

d. $\frac{\sqrt{2}}{2} - 1.$

2- $5 - 4a^2.$

3- Answers:

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

b. Domain is $(-\infty, -1) \cup (-1, 1) \cup (1, \infty).$

4- Answers:

a. $x + 2 + \sqrt{x + 2}.$

b. Domain is $[-2, \infty).$

5- Answers:

a. $\frac{x}{2-x^2}.$

b. Domain is $(-\infty, -\sqrt{2}) \cup (-\sqrt{2}, 0) \cup (0, \sqrt{2}) \cup (\sqrt{2}, \infty).$

6- $f(x) = \frac{5}{7-x} + (5x + 6)^2 - 11.$