

Current Score: 0/28

Question	1	2	3	4	5	6	7	8	9	10	Total
Points	0/6	0/6	0/5	0/3	0/2	0/2	0/1	0/1	0/1	0/1	0/28

1. 0/6 points

SPreCalc7 2.1.022. [3233944]

Evaluate the function at the indicated values. (If an answer is undefined, enter UNDEFINED.)

$$h(x) = \frac{x^2 + 4}{5}; \quad h(2), h(-2), h(a), h(-x), h(a - 2), h(\sqrt{x})$$

$$h(2) = \text{[input box]}$$

$$h(-2) = \text{[input box]}$$

$$h(a) = \text{[input box]}$$

$$h(-x) = \text{[input box]}$$

$$h(a - 2) = \text{[input box]}$$

$$h(\sqrt{x}) = \text{[input box]}$$

2. 0/6 points

SPreCalc7 2.1.025. [3234026]

Evaluate the function at the indicated values. (If an answer is undefined, enter UNDEFINED.)

$$g(x) = \frac{6 - x}{6 + x}; \quad g(2), g(-6), g\left(\frac{1}{2}\right), g(a), g(a - 6), g(x^2 - 6)$$

$$g(2) = \text{[input box]}$$

$$g(-6) = \text{[input box]}$$

$$g\left(\frac{1}{2}\right) = \text{[input box]}$$

$$g(a) = \text{[input box]}$$

$$g(a - 6) = \text{[input box]}$$

$$g(x^2 - 6) = \text{[input box]}$$

3. 0/5 points

SPreCalc7 2.1.033. [3187724]

Evaluate the piecewise defined function at the indicated values.

$$f(x) = \begin{cases} x^2 + 8x & \text{if } x \leq -1 \\ x & \text{if } -1 < x \leq 1 \\ -1 & \text{if } x > 1 \end{cases}$$

$f(-3) = \boxed{\phantom{000}}$

$f\left(-\frac{3}{2}\right) = \boxed{\phantom{000}}$

$f(-1) = \boxed{\phantom{000}}$

$f(0) = \boxed{\phantom{000}}$

$f(45) = \boxed{\phantom{000}}$

4. 0/3 points

SPreCalc7 2.1.046.MI. [3194239]

Find  $f(a)$ ,  $f(a+h)$ , and the difference quotient  $\frac{f(a+h) - f(a)}{h}$ , where  $h \neq 0$ .

$f(x) = \frac{2}{x+7}$

$f(a) = \boxed{\phantom{000}}$

$f(a+h) = \boxed{\phantom{000}}$

$\frac{f(a+h) - f(a)}{h} = \boxed{\phantom{000}}$

5. 0/2 points

SPreCalc7 2.1.052. [3235537]

Find the domain and range of the function. (Enter your answers using interval notation.)

$f(x) = 5x^2 + 9$

domain  $\boxed{\phantom{000}}$

range  $\boxed{\phantom{000}}$

6. 0/2 points

SPreCalc7 2.1.053. [3235529]

Find the domain and range of the function. (Enter your answers using interval notation.)

$f(x) = 8x, \quad -6 \leq x \leq 3$

domain  $\boxed{\phantom{000}}$

range  $\boxed{\phantom{000}}$

7. 0/1 points

SPreCalc7 2.1.057. [3194274]

Find the domain of the function. (Enter your answer using interval notation.)

$$f(x) = \frac{x + 5}{x^2 - 4}$$

8. 0/1 points

SPreCalc7 2.1.059. [3235512]

Find the domain of the function. (Enter your answer using interval notation.)

$$f(t) = \sqrt{t + 7}$$

9. 0/1 points

SPreCalc7 2.1.062.MI. [3194263]

Find the domain of the function. (Enter your answer using interval notation.)

$$f(x) = \sqrt{9 - 7x}$$

10. 0/1 points

SPreCalc7 2.1.071. [3194257]

Find the domain of the function. (Enter your answer using interval notation.)

$$f(x) = \frac{(x + 7)^2}{\sqrt{5x - 1}}$$

## Assignment Details

Name (AID): **worksheet week of Oct 23 (11522927)**  
 Submissions Allowed: **10**  
 Category: **Quiz**  
 Code:  
 Locked: **No**  
 Author: **Watson, Stephen** ( [watson@mathstat.yorku.ca](mailto:watson@mathstat.yorku.ca) )  
 Last Saved: **Oct 23, 2017 08:18 AM EDT**  
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 Randomization: **Person**  
 Which graded: **Last**

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