

MAT – 112
Spring 2018
Review 1
Dates: 2/5 – 2/9

Name: _____

Pledge: _____

Each question topic and point value is recorded in the tables below. You may review these topics from any resource at your leisure. Once you decide to start a review problem, you are on the clock and you must work without any external resources. Each problem can be done one at a time, but must be finished in a single sitting. Answer each question in the space provided, if you run out of room, then you may continue on the back of the page. It is your responsibility to plan out your time to ensure that you can finish all problems within the 2.0 hours allotted. By writing your name and signing the pledge you are stating that your work adheres to these terms and the Davidson honor code.

Scoring Table

Question	Points	Score
1	10	
2	0	
Total:	10	

Topics Table

Question	Topic
1	Polynomial and Rational Functions
2	Exponential and Log Functions
3	Trigonometric Functions
4	Applications

Time Table

Question	1	2	3	4	5	6	7	8
Time								

Start Time:

End Time:

1. Let

$$f(x) = 2x^2 - 12x + 19 \quad \text{and} \quad g(x) = \frac{3x - 2}{2x + 1}.$$

- (a) (6 points) On separate graphs, sketch a plot of the functions f and g . Clearly label any x -intercepts, y -intercepts, and vertical and horizontal asymptotes.

- (b) (4 points) State the definition of the domain and range and find the domain and range of f and g .

Start Time:

End Time:

2.