



2024-2025

Rising 12th Grade Summer Math Packet

Hi rising Seniors! Hope you are having a great summer so far! I put together just a few review questions for you before we jump into AP Precalculus! All of this content is a review from things you have learned in your high school years and they are skills that will help us in AP Precalculus this year!

Directions:

- Complete all pages of the attached packet.
- Show **all** of your work. Try to work <u>without</u> a calculator.
- You can get help from friends, family, or other sources, but do **not** use ChatGPT or PhotoMath. It's important that <u>you</u> understand the work because <u>you</u> need to understand this math for 12th grade.

Name:	
AP Precalculus Summer Work	



1. Round 4.857626 to the nearest thousandth (three decimal places)

2. Round 0.646399 to the nearest thousandth (three decimal places)

3. Factor 6x-18

4. Solve for x: 25x - 17 = 33

5. For this question I give you an example and you should fill in the one below it!

EXAMPLE Expression:	$-4x^2-2x+7$		
<u>Terms</u>	$-4x^2$	- 2 <i>x</i>	7
Coefficients	- 4	- 2	
<u>Constants</u>			7



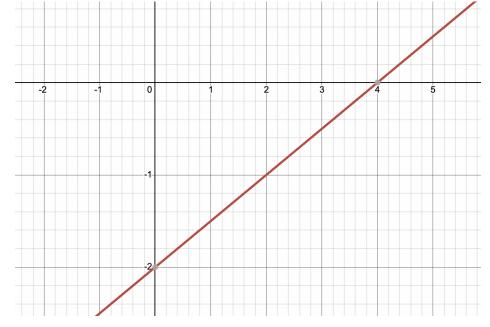


Expression:	$7x^3-2x^2$	+ 9 <i>x</i> - 15	
<u>Terms</u>			
Coefficients			
<u>Constants</u>			

6. Find the slope (also called rate of change) from this table, remember slope (rate of change) is found by: $\frac{y_2 - y_1}{x_2 - x_1}$ This is just the change in y divided by the change in x!

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1	-7
2	-4
3	-1
4	2

7. Find the slope and the y-intercept (where the line crosses the y-axis) of this line



8. Factor this Polynomial: $x^2 - 5x + 6$ If you need help watch this <u>video</u>

9. Factor this polynomial:
$$x^2 + 7x + 10$$

10. Given the function
$$f(x) = 5x^2 - 2x + 1$$

a. Solve for f(5) Hint: Plug in 3 wherever you see an x and Simplify!

b. Solve for f(-2) Hint: Plug in 3 wherever you see an x and Simplify!