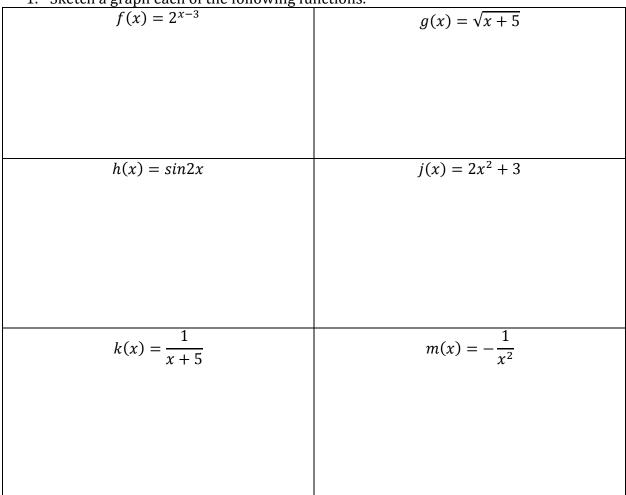
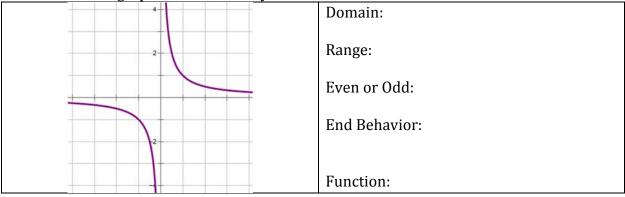
WJHS Summer Math Packet For Rising Precalculus Students

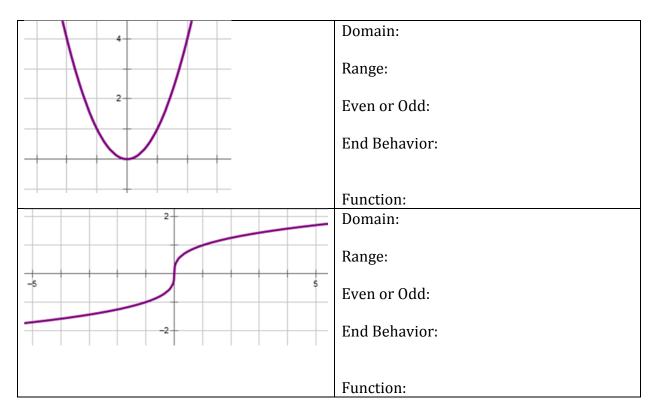
This packet is an optional review of the skills that will help you be successful in Precalculus. By completing this packet over the summer, you will not only keep your brain mathematically active but you will be able to identify skills that you need to strengthen for your year ahead. Complete the exercises in the space provided then check your answers with the Answer Key. If you struggle with any of the exercises, please seek help from a friend, parent, sibling, book, or online resource. Enjoy your math review and we look forward to meeting you in August!

1. Sketch a graph each of the following functions.



2. Given the graphs below, identify the characteristics.



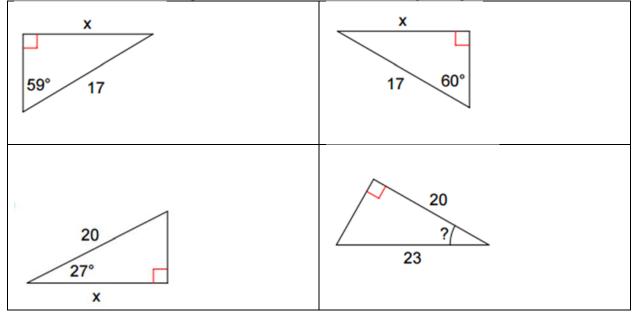


3. Solve each of the following equations.

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3(2x-6) = x - 16	$2x^2 = 72$
$\frac{3}{x-10} = 15$	$x^2 + 9x = -20$
$16x^2 = 8x - 1$	$3\sqrt{x-4} = 9$

$\frac{3}{4x} = \frac{5}{x+2}$	$\frac{2}{3x+6} = \frac{x+2}{x^2 - 10}$
$x^2 + 2x = -7$	$2^{x-4} = 16^{-3x}$
$10^{x+2} = 65$	$4x^{\frac{2}{3}} + 1 = 65$

4. Solve for the missing measure in each of the following triangles.



5. Find an angle with the same sine value as each of the following angles. a. 45° b. 125° c. 319°

- 6. Find an angle with the same cosine value as each of the following angles. a. 45° b. 125° c. 319°
- 7. Evaluate each of the following expressions.a. $\log_2 4$ b. $27^{\frac{1}{3}}$ c. 100^{-1}

$\frac{4}{2}$	1
g. 83	h. $\log \frac{1}{10}$
-	- 10