

Calculus Summer Assignment -- 2016

Attached you will find your summer calculus packet. You are required to:

- Complete all problems in the packet.
- Show your work on your own notebook paper.
- Turn in the packet/notebook in the 1st week of school. (First day for extra credit.)
- Work should be stapled neatly or in a notebook.

If you do not remember how to do some of the problems you can visit the following websites for help:

- www.coolmath.com
- www.freemathhelp.com
- www.algebasics.com
- www.algebra.com
- www.algebrahelp.com
- www.algebra-tutoring.com
- www.khanacademy.org
- www.utubersity.com

There are many other websites out there to assist you. This summer would, be a great time to explore websites that will help you next year.

If you have questions or concerns, please contact Mr. Snedegar at ssnedegar@vvuhsd.org or Mr. Pellegrini at apellegrini@vvuhsd.org

$$275) \quad f(x) = \begin{cases} 5, & -6 < x \leq -2 \\ x^2, & -2 < x \leq 2 \\ x + 2, & 2 < x \leq 6 \end{cases}$$

- a) $f(0) =$
- b) $f(-2) =$
- c) $f(2) =$
- d) $f(5) =$
- e) graph $f(x)$
- f) Give the Domain
- g) Give the Range
- h) Name any discontinuities

$$276) \quad f(x) = \begin{cases} x + 2, & -6 < x < -2 \\ \sqrt{4 - x^2}, & -2 < x \leq 2 \\ -\frac{1}{2}x + 2, & 2 < x \leq 6 \end{cases}$$

- a) $f(0) =$
- b) $f(-2) =$
- c) $f(2) =$
- d) $f(5) =$
- e) graph $f(x)$
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- h) Name any discontinuities