Alg2Trig Warm Up Chap 2 Day 4

What polynomial must be added to $x^2 - 2x + 6$ so that the sum is $3x^2 + 7x$?

A. $4x^2 + 5x + 6$

For the function $h(x) = 4x^2 - 5x$, what is the value of h(-3)?

B. $3x^2 + 9x + 6$

A. -93

C. $3x^2 + 9x - 6$

B. -9 C. 21

D. $2x^2 + 9x - 6$ E. $2x^2 - 5x + 6$

D. 51

E. 159

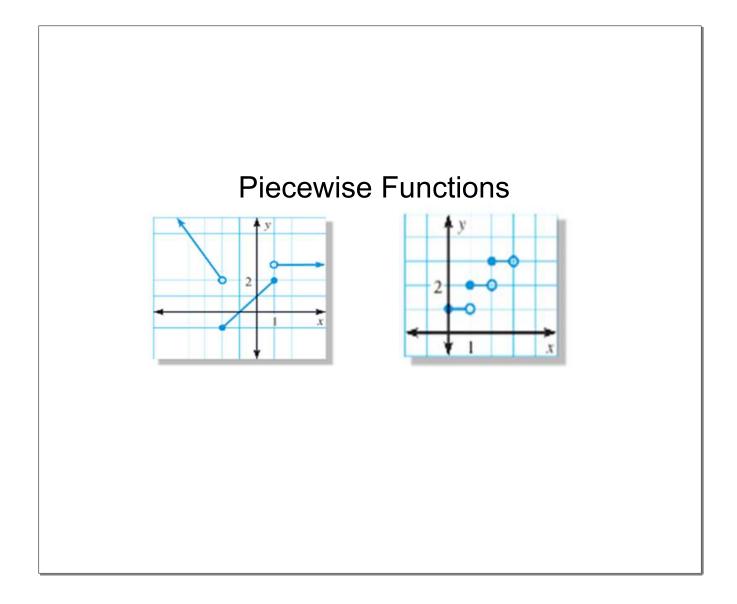
***7th Block Pictures at 1:15.

Summer HW quiz last 30 minutes

Agenda

- -Turn in take home DLT
- -Check HW-
- -Need any help with line of best fit in the graphing calculator?
- -Piecewise lesson-you will need graph paper
- -Summer Homework Quiz (last 30 minutes)
- -Correlation DLT next class!

Chapter 2 2.7 Piecewise Functions



1.) Evaluate the piecewise function at the given values of x.

Examples

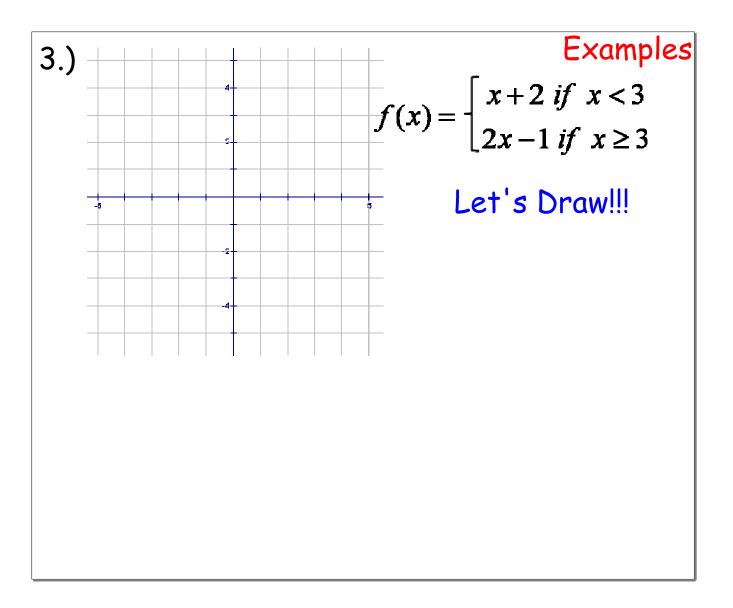
$$f(x) = \begin{cases} 2x + 2 & if \quad x < 0 \\ -x^2 & if \quad x \ge 0 \end{cases}$$

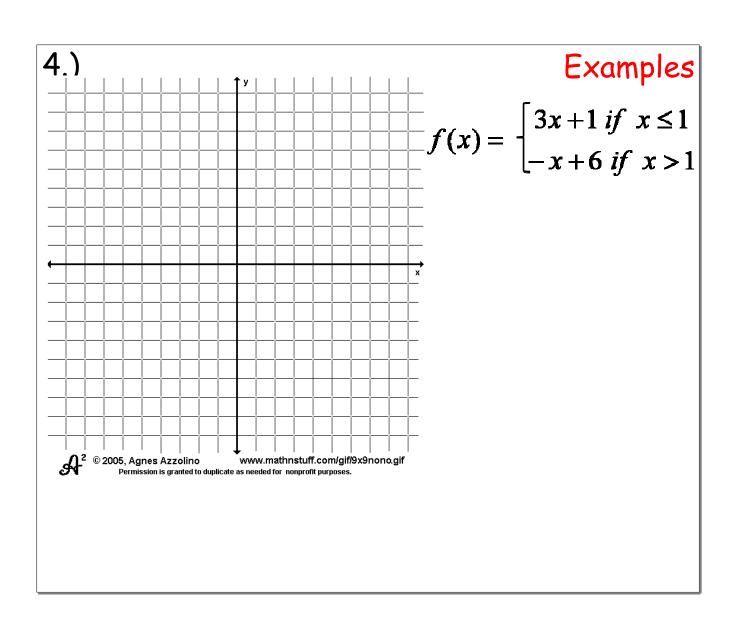
$$x = -1, 0, 1$$

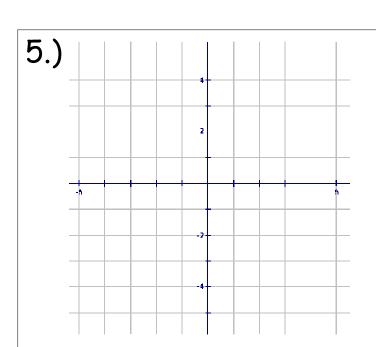
2.) Evaluate the piecewise function at the given values of x.

$$f(x) = \begin{cases} x+3 & \text{if } x < 2\\ x-3 & \text{if } x \ge 2 \end{cases}$$

$$x = 1, 2, 3$$







$f(x) = \begin{cases} -1 & \text{if } -2 \le x < -1 \\ 0 & \text{if } -1 \le x < 0 \\ 1 & \text{if } 0 \le x < 1 \\ 2 & \text{if } 1 \le x < 2 \end{cases}$

Warm Up

*Correlation DLT

***Pick one up in front of the tray!

*Go over Summer Homework Quiz

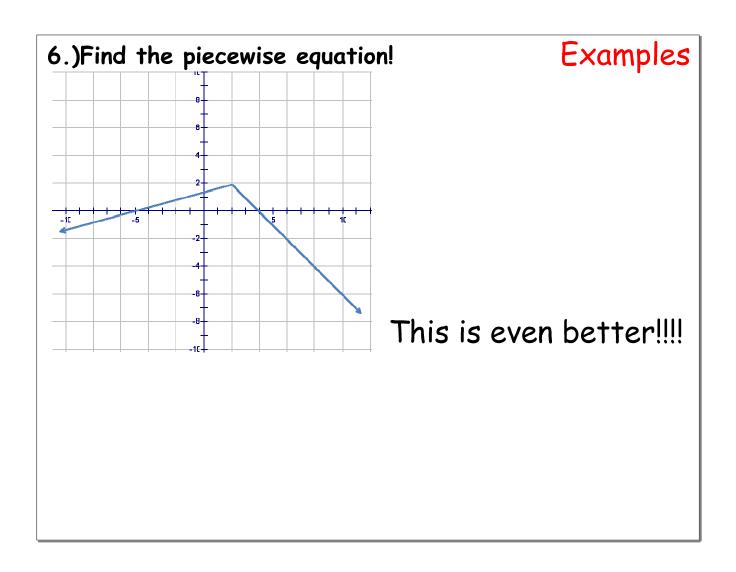
*Practice writing equations of lines.

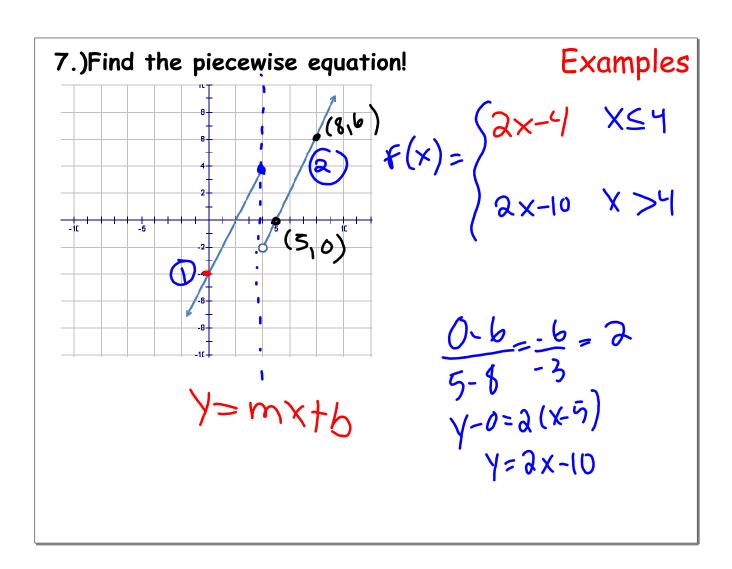
*Sage n Scribe Piecewise Functions

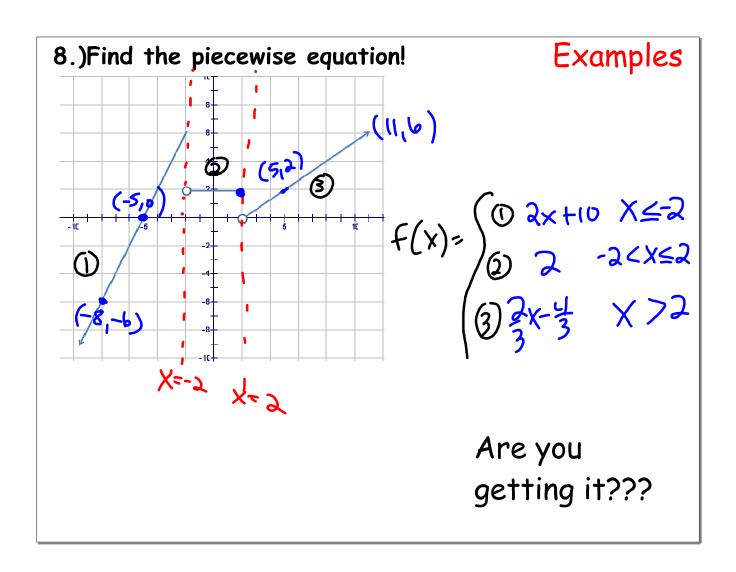
$$9(-2) = 2^{-2} + 1$$

$$\frac{1}{2^{2} + 1} = 5$$

$$\frac{1}{4} + \frac{1}{4} = 5$$







n mathematics, a piecewise -defined function (also called a piecewise function ybrid function) is a function defined by multiple sub- functions , each sub- func pplying to a certain interval of the main function's domain, a sub-domain.	

Homework:

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WS