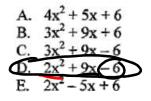
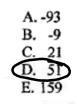
#### Alg2Trig Warm Up Chap 2 Day 4

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





 $4(-3)^{2}-5(-3)$ 4(9)+15

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

\*\*\*6th & 8th Block Pictures and vision test 15 min into block.

\*\*\*7th Block Pictures and vision test at 1:15.\*Summer HW quiz in 10 minutes\*

Homework-> even answers pg.93 #24) x-int:4, y-int:-4 28) x-int:5, y-int:-4 44) graph 46) graph 46) graph pg. 101 #10) y=-3x+8 18) skip 22) y=3x+2 42) 3x+2y=-2 44) 2x-y =-5 <u>Agenda</u>

-Turn in take home DLT

-Check HW

-Summer Homework Quiz

-Need any help with line of best fit in the graphing calculator?

-DLT-Next class

-Piecewise lesson-you will need graph paper

#### Algebra 2 Trig Daily Learning Target Quiz Best-Fitting Lines Day 5

1.) Describe what it means to be a line of best fit.	2.) Find the line of best fit.
3.) What is the correlation coefficient for this graph?	4.) Write a correlation coefficient when one variable increases and the other is decreasing?

#### ACT DLT EXTRA CREDIT DAY 5

What is the y-intercept of the line determined by the equation	2x + 3y + 4 = 0?
--	------------------

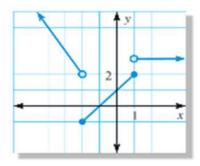
- F. -4 G. -2 H.  $-\frac{4}{3}$ J.  $\frac{4}{3}$
- K. 4

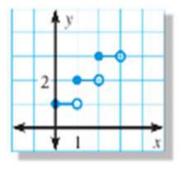
## Chapter 2

## 2.7 Piecewise Functions

## Open your books to page 130

### **Piecewise Functions**





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

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

$$\begin{array}{c} x = -1, 0, 1 \\ \underline{\chi} = -1 \\ 2(-1) + 2 \\ -\lambda + 2 \\ 0 \end{array} \qquad \begin{array}{c} \chi = 0 \\ -(0) \\ -(1)$$

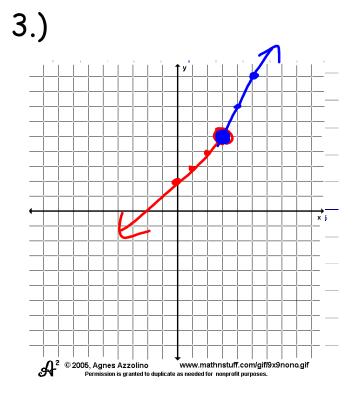
2.) Evaluate the piecewise function at the given values of x.

Examples TOYO

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

$$x = 1, 2, 3$$

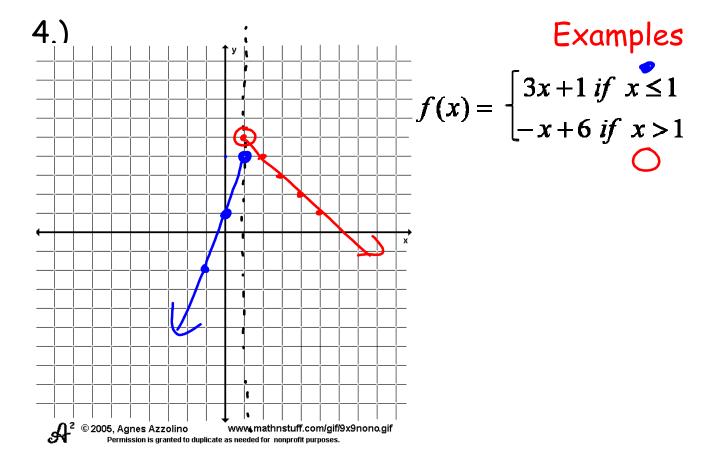
$$\begin{array}{c} x = 1, 2, 3 \\ x = 1 \\ 1+3 \\ 4 \end{array} \quad \begin{array}{c} x = 2 \\ 3-3 \\ -1 \end{array} \quad \begin{array}{c} x = 3 \\ 3-3 \\ 0 \end{array}$$

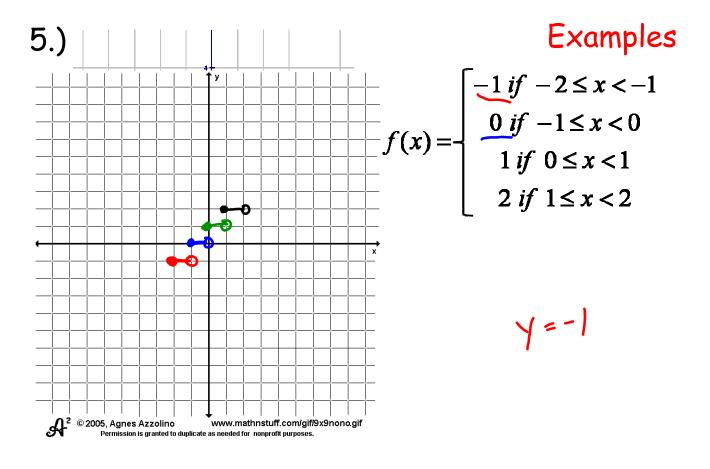


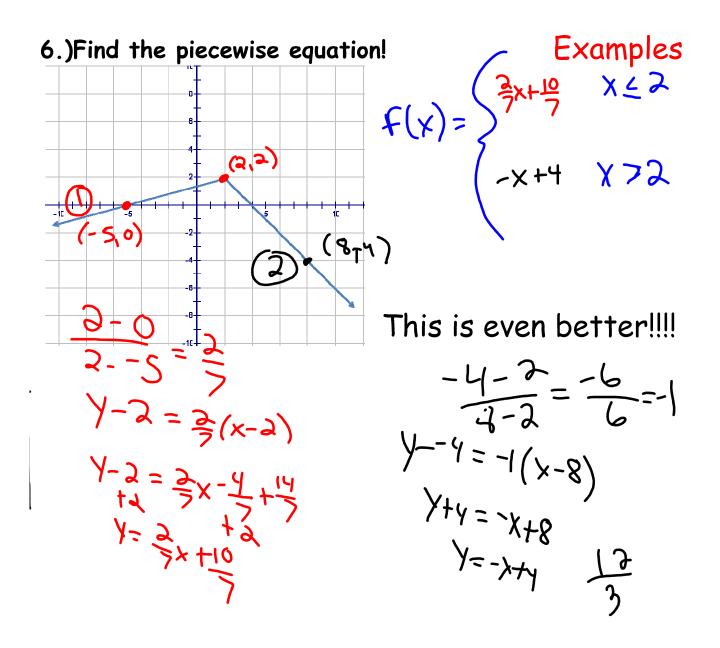
Examples  

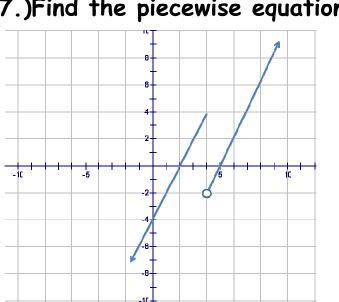
$$f(x) = \begin{cases} x+2 & \text{if } x < 3\\ 2x-1 & \text{if } x \ge 3\\ \text{Let's Draw!!!} \end{cases}$$

10



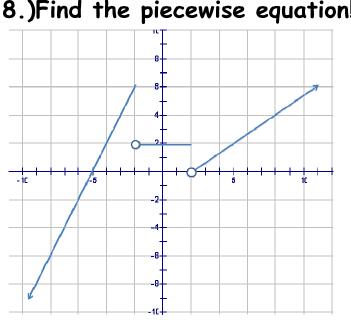






### 7.)Find the piecewise equation!

## Examples



#### 8.)Find the piecewise equation!

### Examples

Are you getting it??? Homework: Page 131/1-7, 8b WS