Write the equation of a line that passes through (3, 1) and (5, 8)

What is the parallel slope of the equation y = 5x + 2

What is the perpendicular slope of the equation y = 5x + 2

Write the equation of a line that passes through
$$(3, 1)$$
 and $(5, 8)$
 $y = 2 \times - 19$
 $y = 3 \times - 19$
 $y = 4 \times -$

- ★ Write the equation of a line that passes through (3, 1) and (5, 8)
- \bigstar What is the parallel slope of the equation y = 5x + 2
- \bigstar What is the perpendicular slope of the equation y = 5x + 2

★ Write the equation of a line that passes through (3, 1) and (5, 8)

 \bigstar What is the parallel slope of the equation y = 5x + 2

$$\bigstar$$
 What is the perpendicular slope of the equation $y = 5x + 2$

☆ Write the equation of a line that passes through (3, 1) and (5, 8) (1) Slope y-y,=m(x-x,) 7 × -19 - 7/2×-19/5

Write the equation of a line that passes through (3, 1) and (5, 8)

(2) (
$$\frac{3}{x}$$
)

$$y = m \times + b$$

$$1 = \frac{3}{2} + \frac{3}{2} + \frac{3}{2} + 1$$

Write the equation of a line that passes through (3, 1) and (5, 8)

What is the parallel slope of the equation y = 5x + 2

What is the perpendicular slope of the equation y = 5x + 2

Piecewise Functions Notes Worksheet - Notes 1st.notebook

Name_ Period

Worksheet - Piecewise Functions

Evaluate the following for $f(x) = \begin{cases} 3x - 5, & x > 4 \\ x^2, & x \le 4 \end{cases}$:

1. f(7)

- 2. f(4) 3. f(-3)

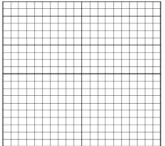
Evaluate the following for $f(x) = \begin{cases} -2|x+1|, & x \le 1 \\ 3, & 1 < x < 3 \end{cases}$:

4. f(10)

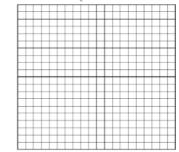
- 5. f(2) 6. f(0)

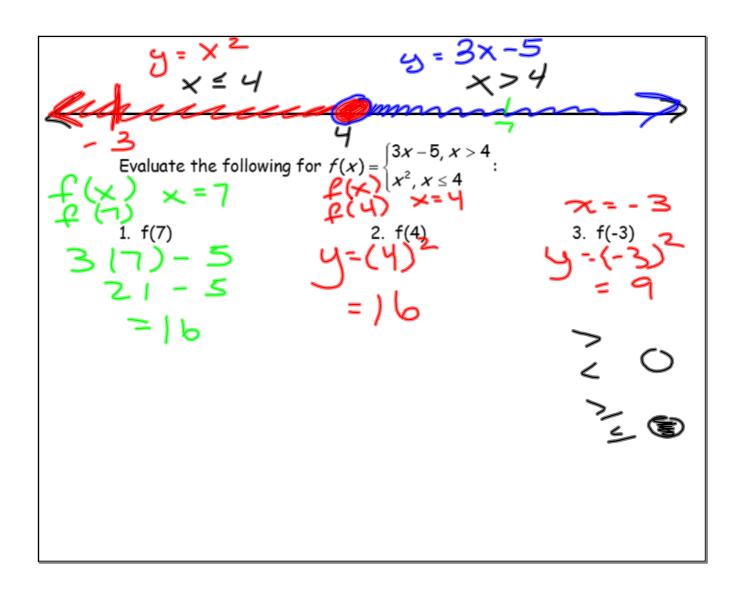
Graph the following piecewise functions.

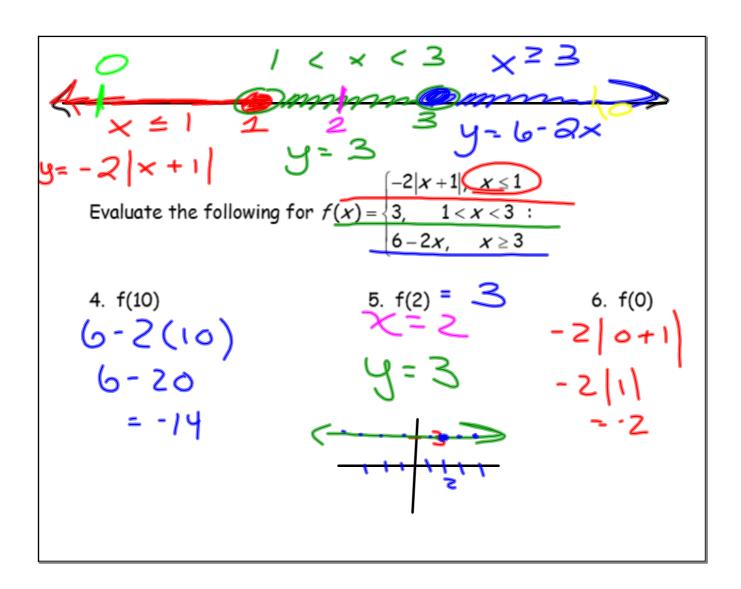
7.
$$f(x) = \begin{cases} -2, & x < 0 \\ 3, & x \ge 0 \end{cases}$$

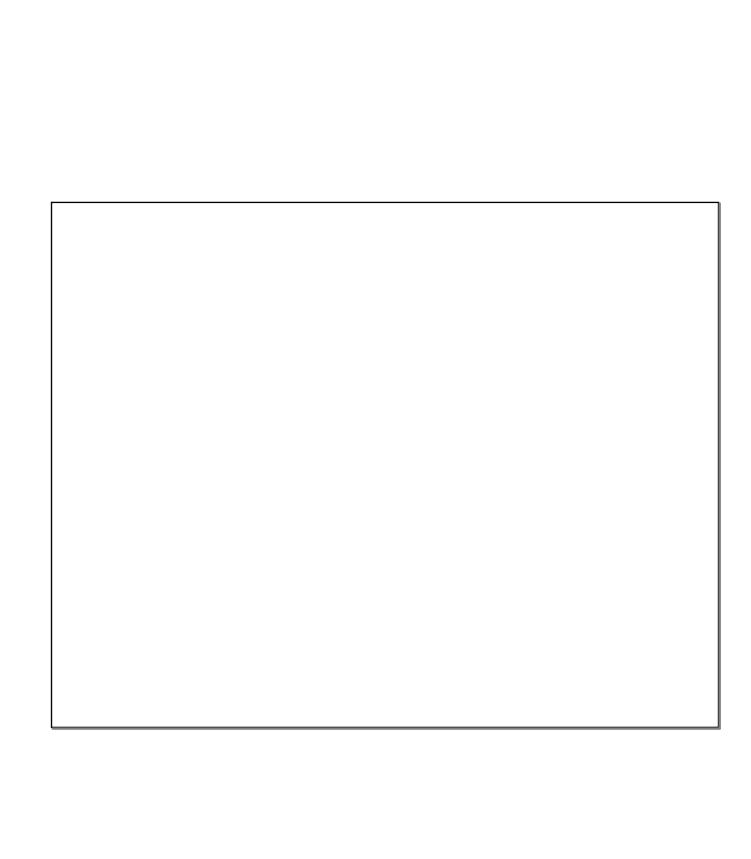


8.
$$g(x) = \begin{cases} -x + 2, & x < 2 \\ x - 2, & x \ge 2 \end{cases}$$



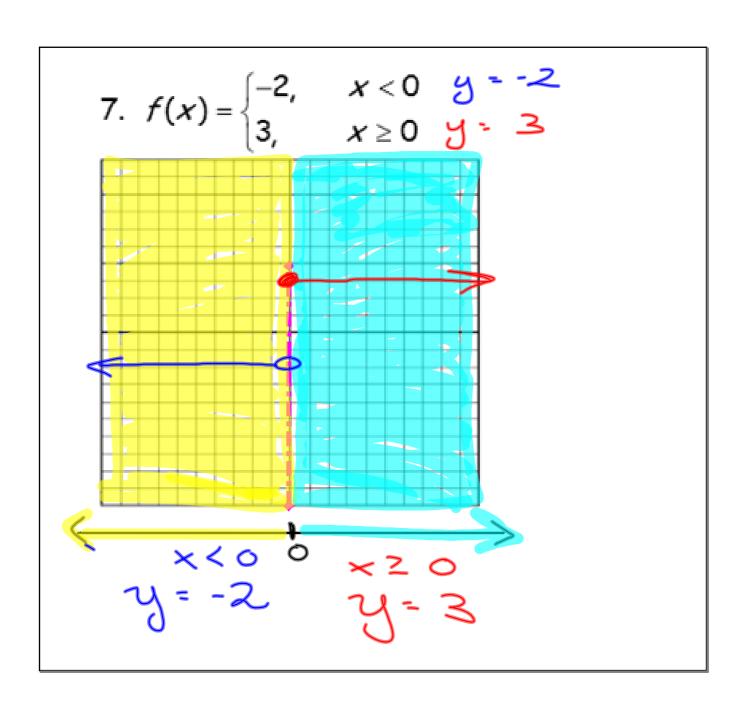


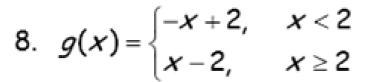


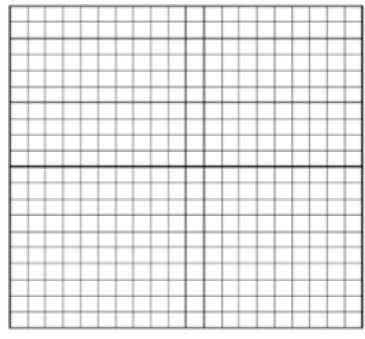


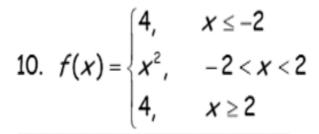
Piecewise Functions Notes Worksheet - Notes 1st.notebook

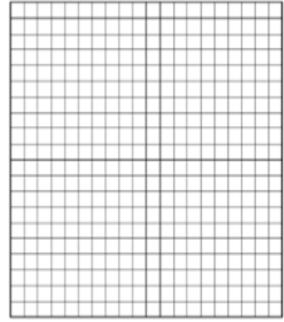
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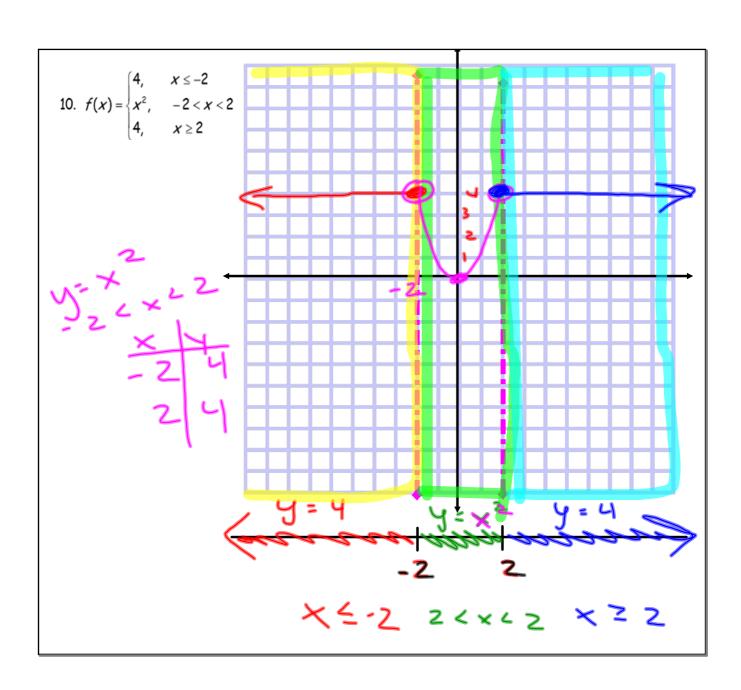






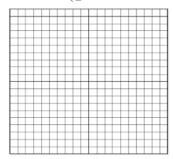




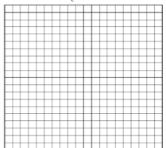


Piecewise Functions Notes Worksheet - Notes 1st.notebook

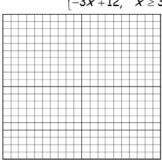
9.
$$h(x) = \begin{cases} -3x + 2, & x \le 2\\ \frac{1}{2}x - 4, & x > 2 \end{cases}$$



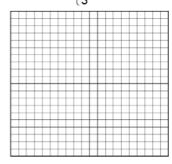
9.
$$h(x) = \begin{cases} -3x + 2, & x \le 2 \\ \frac{1}{2}x - 4, & x > 2 \end{cases}$$
 10. $f(x) = \begin{cases} 4, & x \le -2 \\ x^2, & -2 < x < 2 \\ 4, & x \ge 2 \end{cases}$



11.
$$g(x) = \begin{cases} 3x + 12, & x \le -3 \\ |x|, & -3 < x < 3 \\ -3x + 12, & x \ge 3 \end{cases}$$
 12. $h(x) = \begin{cases} x^2 - 4, & x < 3 \\ \frac{2}{3}x - 5, & x \ge 3 \end{cases}$

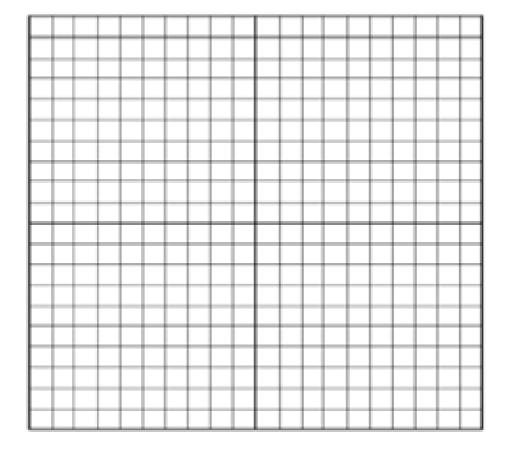


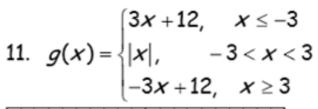
12.
$$h(x) = \begin{cases} x^2 - 4, & x < 3 \\ \frac{2}{3}x - 5, & x \ge 3 \end{cases}$$

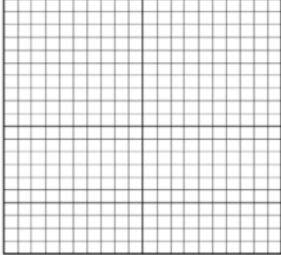


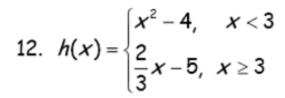
- 13. Which of the piecewise functions are continuous?
- 14. Which of the piecewise functions are discontinuous?

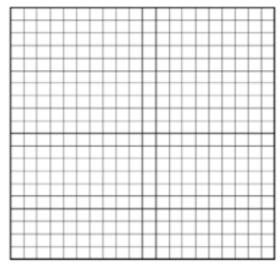
9.
$$h(x) = \begin{cases} -3x + 2, & x \le 2 \\ \frac{1}{2}x - 4, & x > 2 \end{cases}$$

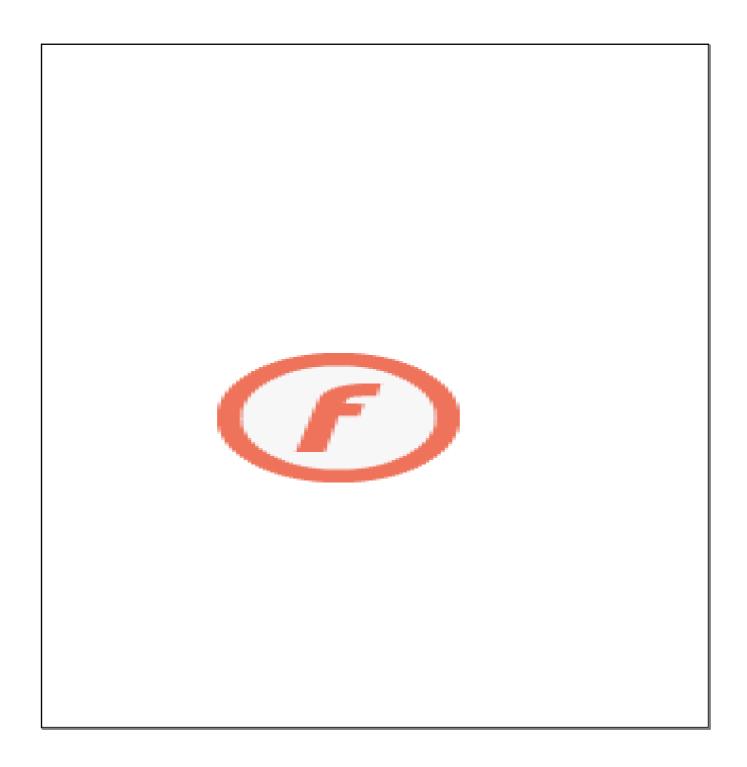












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