

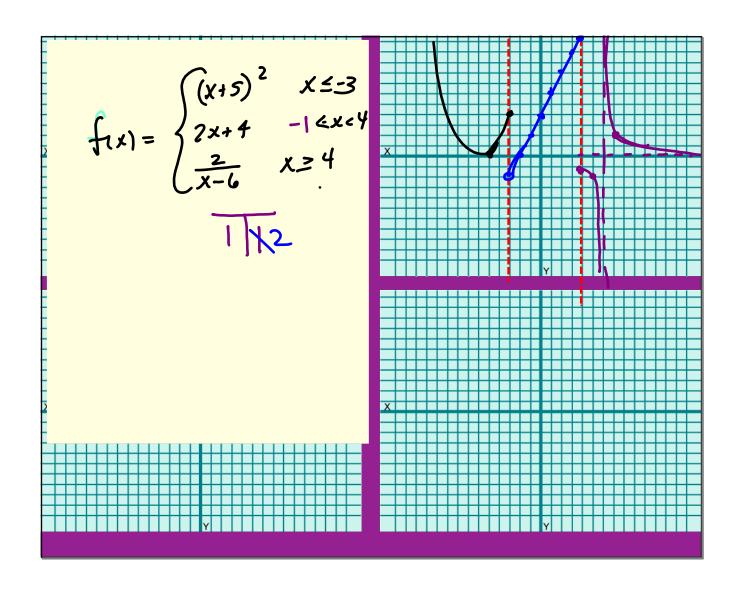
Even
$$f(-x) = f(x)$$
 y-axis

Odd $f(-x) = -f(x)$ origin

 $y = 3\sqrt{x+4} - 2$
Left Down 4 26

 $y = \sqrt{5-x} = \sqrt{-(x-5)}$
Right S

 $y = -2\ln(4-x)$
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$$f(x) = 2|x-3| - 4$$

$$2(x-3) - 4 = 2x-6-4$$

$$= 2x-10$$

$$-2(x-3) - 4$$

$$-2x+6-4 = -2x+2$$

$$|x| = \begin{cases} x & x \ge 0 \\ -x & x < 0 \end{cases}$$

$$f(x) = \begin{cases} 2x-10 & x \ge 3 \\ -ax+2 & x < 3 \end{cases}$$
1) Drop abs value + Simplify
2) Add—to frost, drop abs value + Simplify.

Vertex of parabola:

$$f(x) = 2x^{2} - 8x + 4$$

$$X = \frac{-b}{2a} = \frac{8}{3(2)} = 2$$

$$Y = \text{Sub in } f(x) = 2(2)^{2} - 8(2) + 4$$

$$= 8 - 16 + 4$$

$$= 3 \cdot 4$$

$$= 3 \cdot$$