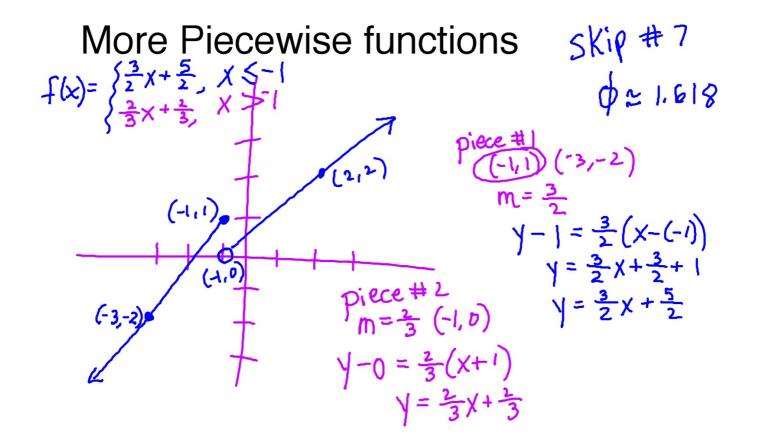
(1)
$$(6x^{2} + 3(-x+2)^{2} = 12$$

 $(6x^{2} + 3(x^{2} - 4x + 4) = 12$
 $(6x^{2} + 3x^{2} - 12x + 12) = 12$
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 $(6x^{2} + 3x^{2} - 12x + 12) = 12$
 $(6x^{2} + 3x^{2} - 12x + 12x + 12) = 12$



$$y = -\frac{2}{3}x + 1$$

Sketch. Rewrite the function as a piecewise function.

$$y = |x| \qquad f(x) = \begin{cases} -x, & x < 0 \\ x, & x \ge 0 \end{cases}$$

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as a piecewise function.

$$V = -|2x-6|$$
 $V = -|2(x-3)|$
 $V = -|2x+6|$