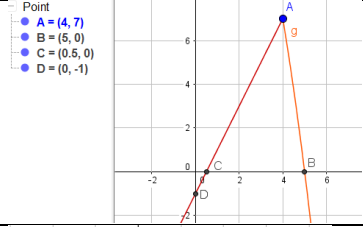
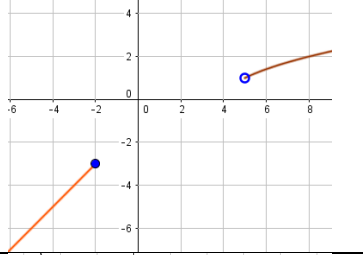
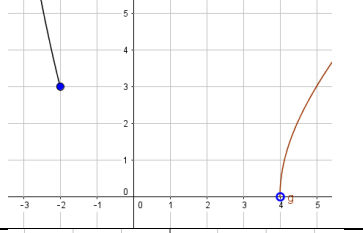
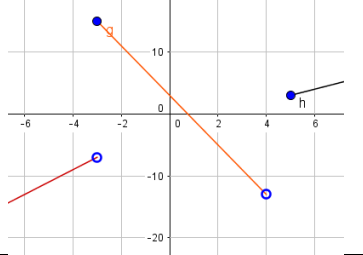
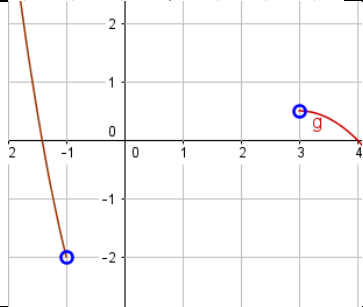
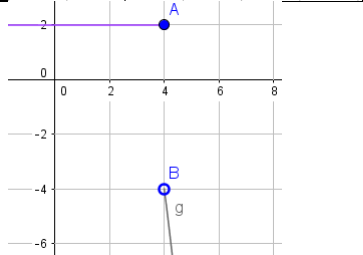
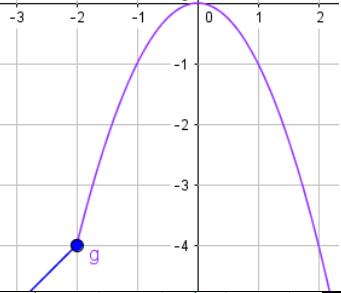
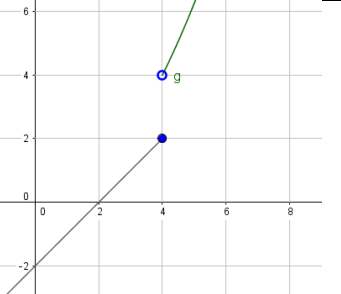


VD unit 1 topic 3 part 2

Sketch $f(x)$, find x and y intercept of $f(x)$ and evaluate at given point(s)

functions	sketch	$f(x)$ at $x = ?$
$f(x) = \begin{cases} 2x-1, x \leq 4 \\ -x^2+2x+15, x > 4 \end{cases}$		$f(6) = -9$
$f(x) = \begin{cases} x-1, x \leq -2 \\ \sqrt{x-4}, x > 5 \end{cases}$		$f(6) = \sqrt{2}$
$f(x) = \begin{cases} x^2-1, x \leq -2 \\ \sqrt{x^2-16}, x > 4 \end{cases}$		$f(6) = 2\sqrt{5}$
$f(x) = \begin{cases} 2x-1, x < -3 \\ -4x+3, -3 \leq x < 4 \\ x-2, x \geq 5 \end{cases}$		$f(6) = 4$
$f(x) = \begin{cases} 2x^2-4, x < -1 \\ -\frac{1}{2}(x-2)(x-4), x > 3 \end{cases}$		$f(6) = -4$
$f(x) = \begin{cases} 2, x \leq 4 \\ -x^2+12, x > 4 \end{cases}$		$f(6) = -24$

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$f(x) = \begin{cases} x-2, & x \leq -2 \\ -x^2, & x > -2 \end{cases}$		$f(6) = -36$
$f(x) = \begin{cases} x-2, & x \leq 4 \\ 2x^2, & x > 4 \end{cases}$		$f(6) = 72$