

# Shading Regions (B)



## ANSWERS

Write the inequalities or leave the region **unshaded** and decide whether point A is inside, outside or on the boundary of the region.

Define the Unshaded Region	Inequalities defining the unshaded region	Point A Inside Outside or On?	Define the Unshaded Region	Inequalities defining the unshaded region	Point A Inside Outside or On?
	$y \geq x$	INSIDE <input type="checkbox"/> OUTSIDE <input checked="" type="checkbox"/> ON <input type="checkbox"/>		$2y + 4x < 8$	A (1, 1) INSIDE <input checked="" type="checkbox"/> OUTSIDE <input type="checkbox"/> ON <input type="checkbox"/>
	$x + y \leq 6$	INSIDE <input checked="" type="checkbox"/> OUTSIDE <input type="checkbox"/> ON <input type="checkbox"/>		$y \leq x + 1$ $3y - 9x > -12$	A (-3, -5) INSIDE <input checked="" type="checkbox"/> OUTSIDE <input type="checkbox"/> ON <input type="checkbox"/>
	$y > 2x + 4$	INSIDE <input type="checkbox"/> OUTSIDE <input checked="" type="checkbox"/> ON <input type="checkbox"/>		$x < 1$ $y \leq 5x - 3$ $4y - 2x > -16$	A (0, -3) INSIDE <input type="checkbox"/> OUTSIDE <input type="checkbox"/> ON <input checked="" type="checkbox"/>
	$y < 7 - 3x$ $y \leq 5$	INSIDE <input type="checkbox"/> OUTSIDE <input type="checkbox"/> ON <input checked="" type="checkbox"/>	Try it without a grid!	$y \geq x$ $x \leq -5$	A (-5, -6) INSIDE <input type="checkbox"/> OUTSIDE <input checked="" type="checkbox"/> ON <input type="checkbox"/>
	$y \leq x + 4$	INSIDE <input type="checkbox"/> OUTSIDE <input type="checkbox"/> ON <input checked="" type="checkbox"/>		$y > 3$ $x \leq -12$ $y + x \geq -10$	A (-15, 5) INSIDE <input type="checkbox"/> OUTSIDE <input type="checkbox"/> ON <input checked="" type="checkbox"/>