Pg. 397 (8-36 evens)

(8) $y \leq -2x + 1 \quad (2,2)$

$2 \leq -2(2) + 1$

$2 \leq -4 + 1$

$2 \leq -3$

No!

(10) $y \geq 3x - 2 \quad (0,0)$

$0 \geq 3(0) - 2$

$0 \geq -2$

Yes!

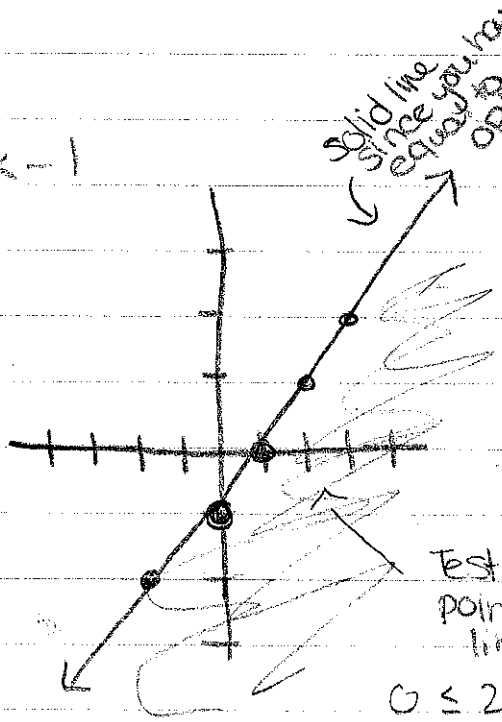
(12) $y \geq -\frac{2}{5}x + 4 \quad (0,0)$

$0 \geq -\frac{2}{5}(0) + 4$

$0 \geq 4$

No!

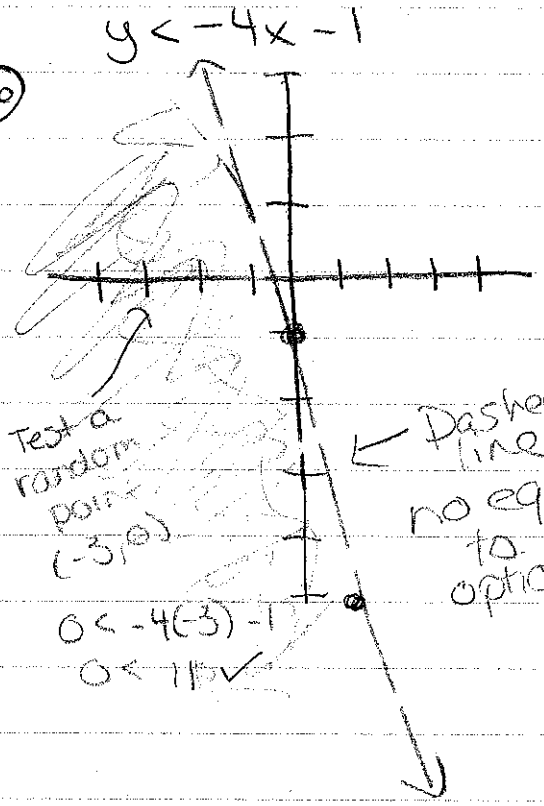
(14) $y \leq x - 1$



$0 \leq 2 - 1$

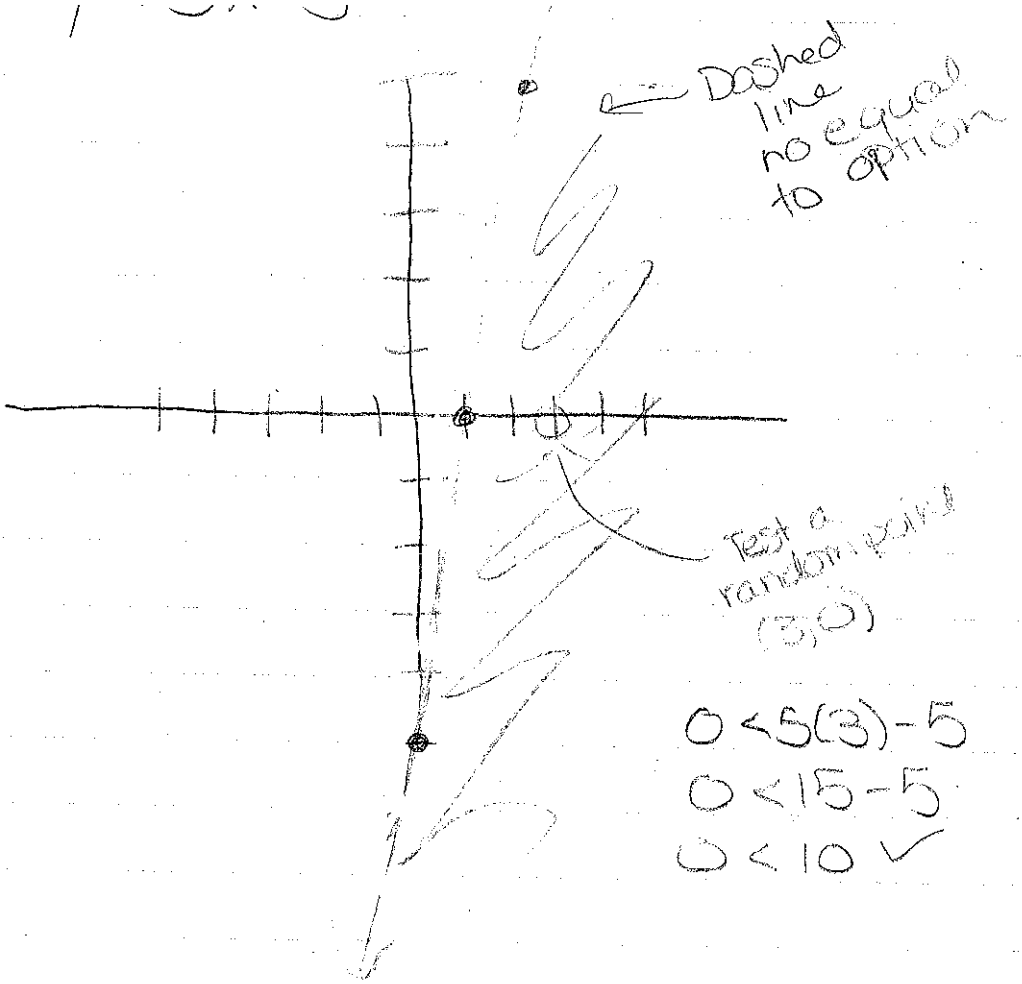
$0 \leq 1$ ✓

(16) $y < -4x - 1$



$0 < -4(-3) - 1$

$0 < 11$ ✓



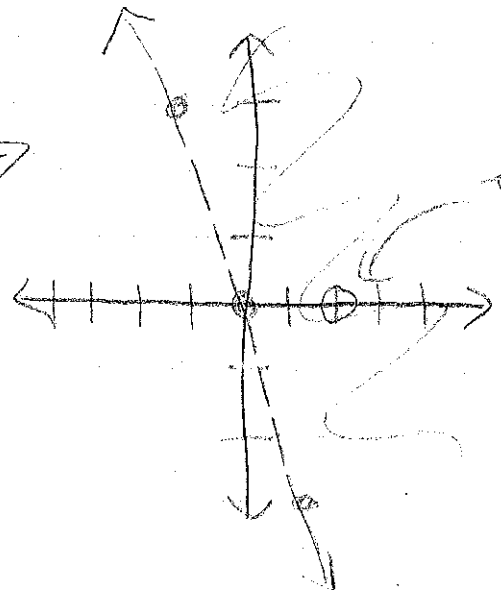
$0 < 5(3) - 5$

$0 < 15 - 5$

$0 < 10$ ✓

(20) $y > -3x$

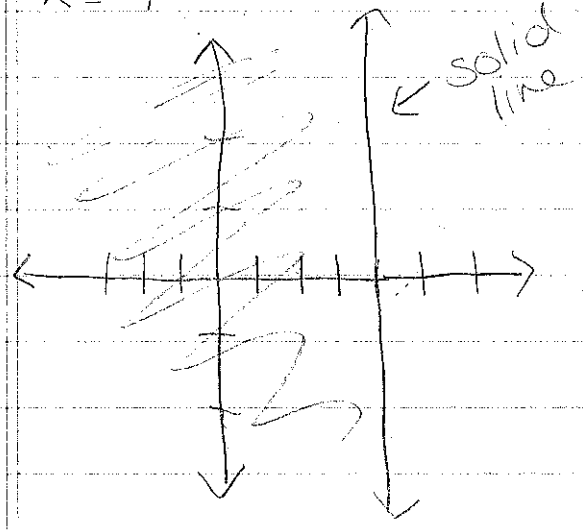
Dashed line no equal to option →



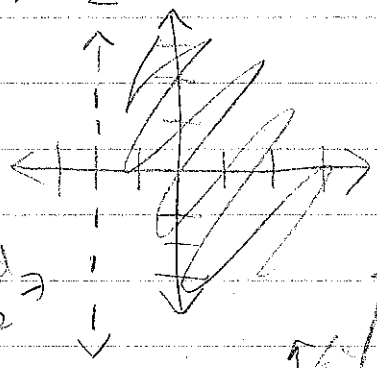
$0 > -3(2)$

$0 > -6$ ✓

(22) $x \leq 4$

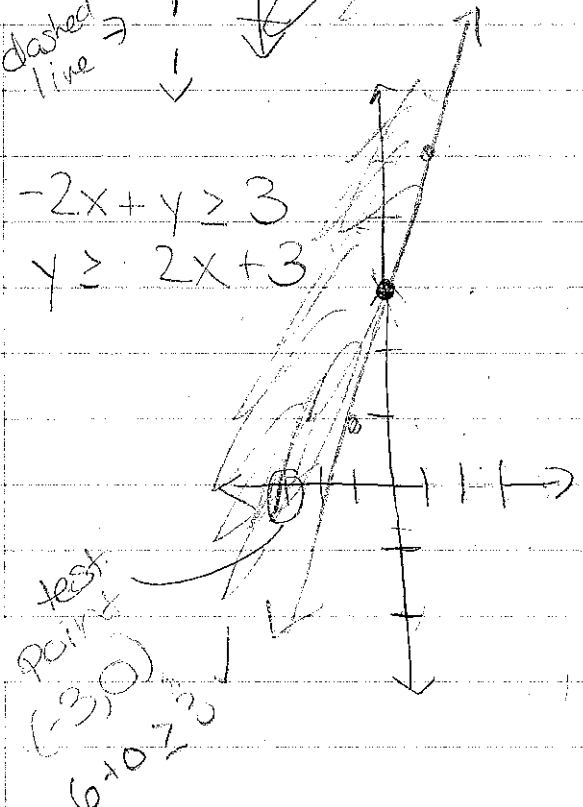


(24) $x > -2$



(26) $-2x + y \geq 3$

$y \geq 2x + 3$

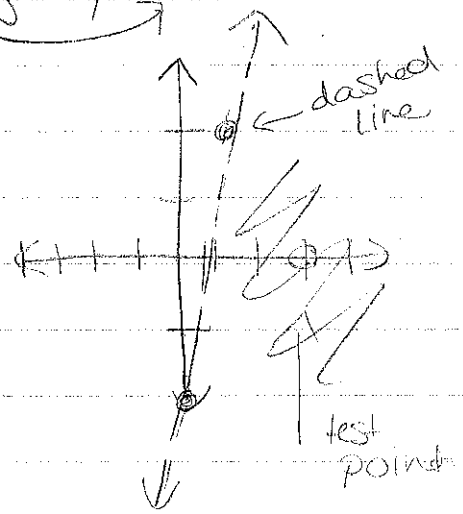


(28) $4x - y > 2$

$-y > -4x + 2$

flip sign when dividing by -1

$y < 4x - 2$



$0 < 4(3) - 2$

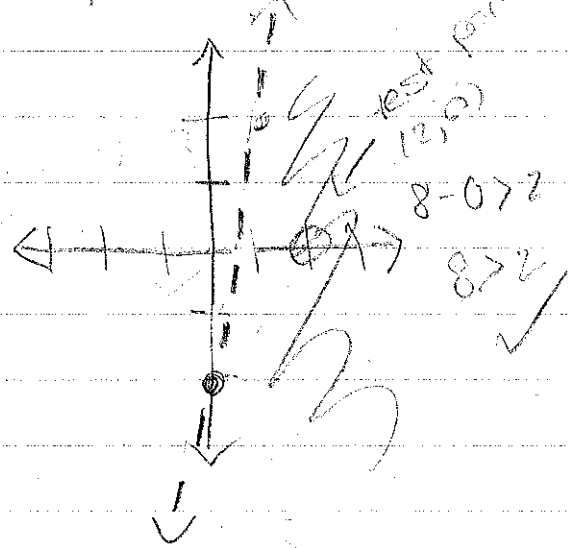
$0 < 12 - 2$

$0 < 10$ ✓

(28) $4x - y > 2$

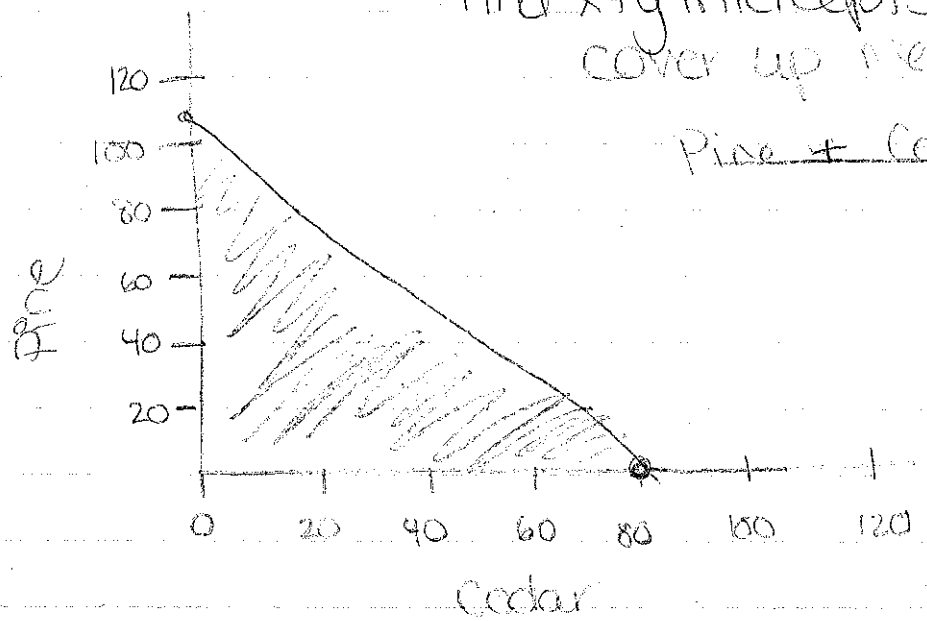
$-y > -4x + 2$

$y < 4x - 2$



* Find x+y intercepts using cover up method

Pine + Cedar



(32) $y \geq -3x + 3$

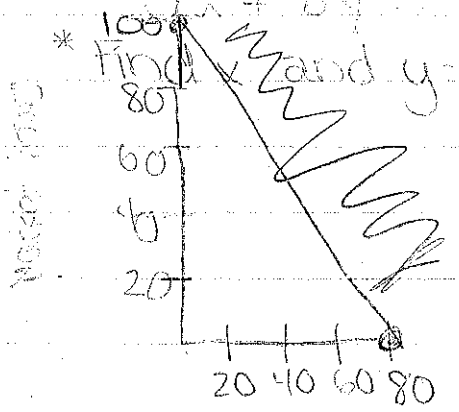
(34) $x < 3$

(36) Let y = cafe

Let y = market

$10x + 8y = 800$

* Find x and y-intercepts using cover up method



b) No the point (30, 60) does not lie on the line or shaded region.