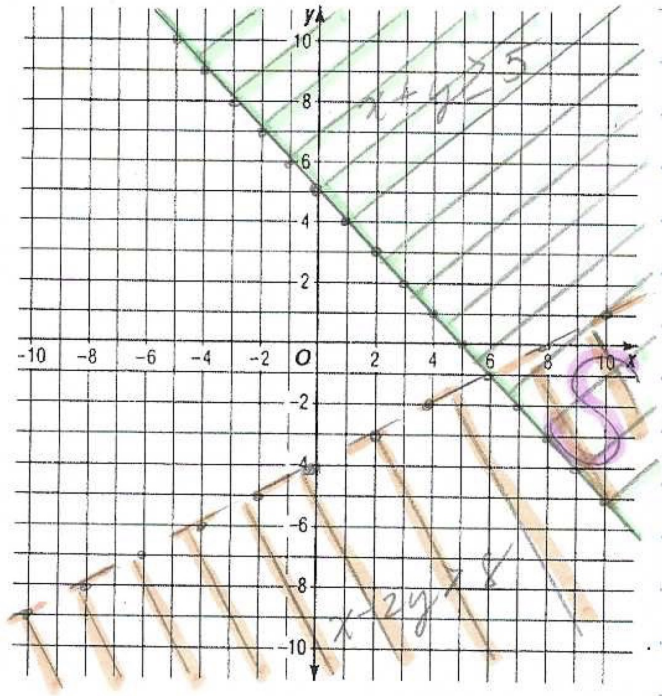
28

Hw: Red text p. 496 & 497
#s 14-17, 19 & 20

2/5



14.) $x+y \geq 5$

$y \geq -1x+5$

$m = \frac{-1}{1}$ $b = 5$

solid shade ↑

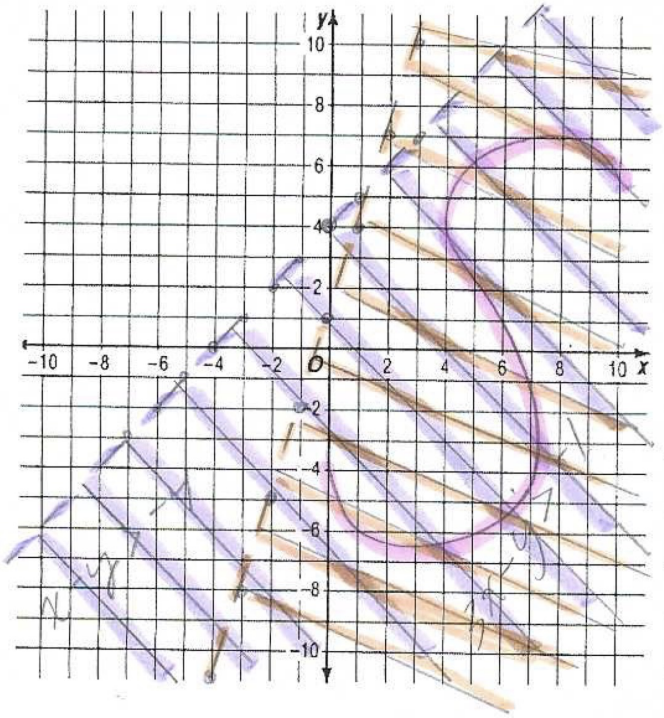
$x-2y > 8$

$\frac{-2y}{-2} > \frac{-1x}{-2} + \frac{8}{-2}$

$y < \frac{1}{2}x - 4$

$m = \frac{1}{2}$ $b = -4$

dotted shade ↓



15.) $3x - y > -1$

$\frac{-3x}{} \quad \frac{-3x}{}$

$\frac{-y}{-1} > \frac{-3x}{-1} \frac{-1}{-1}$

$y < 3x+1$

$m = \frac{3}{1}$ $b = 1$

shade ↓ dotted

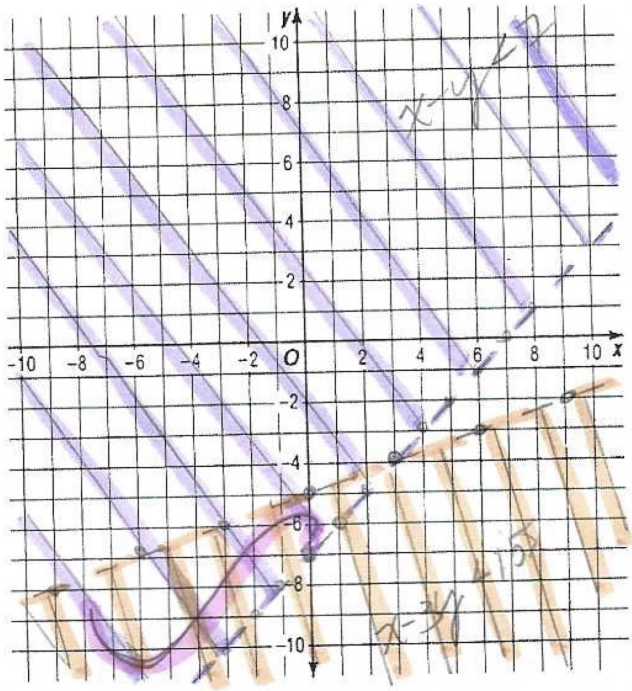
$x - y > -4$

$\frac{-y}{-1} > \frac{-x}{-1} \frac{-4}{-1}$

$y < 1x+4$

$m = \frac{1}{1}$ $b = 4$

dotted shade ↓



16.) $x - y < 7$

$\frac{-y}{-1} < \frac{-x}{-1} + \frac{7}{-1}$

$y > 1x - 7$

$m = \frac{1}{1}$ $b = -7$

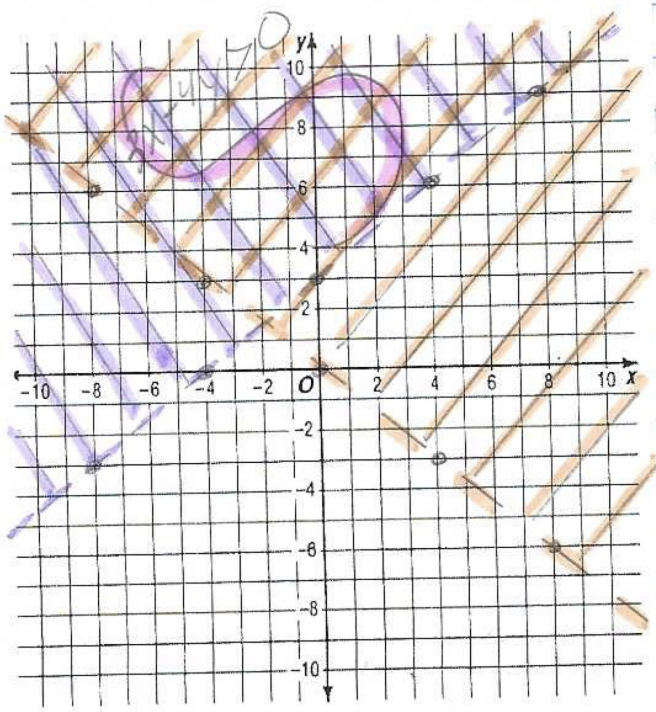
dotted shade ↑

$x - 3y > 15$

$\frac{-3y}{-3} > \frac{-1x}{3} + \frac{15}{-3}$

$y < \frac{1}{3}x - 5$ dotted

$m = \frac{1}{3}$ $b = -5$ shade ↓



17.) $3x - 4y < -12$

$\frac{-4y}{-4} < \frac{-3x}{-4} - \frac{12}{-4}$

$y > \frac{3}{4}x + 3$

$m = \frac{3}{4}$ $b = 3$ shade ↑

dotted

$3x + 4y > 0$

$\frac{4y}{4} > \frac{-3x}{4}$

$y > \frac{-3}{4}x$

$m = -\frac{3}{4}$ $b = 0$

shade ↑ dotted

19.) $y < x - 3$

$y \geq -3$

20.) $y < -x - 2$

$x < -2$