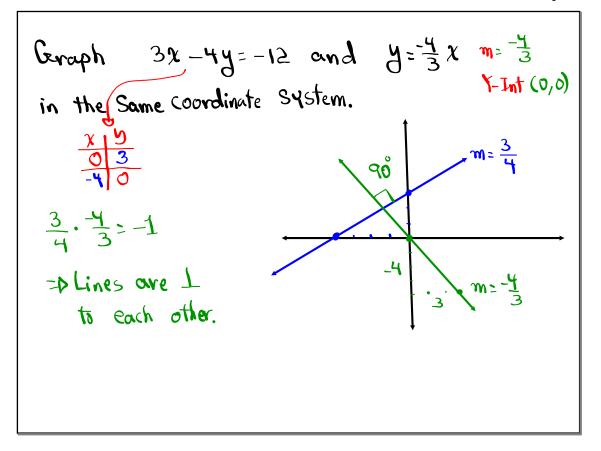
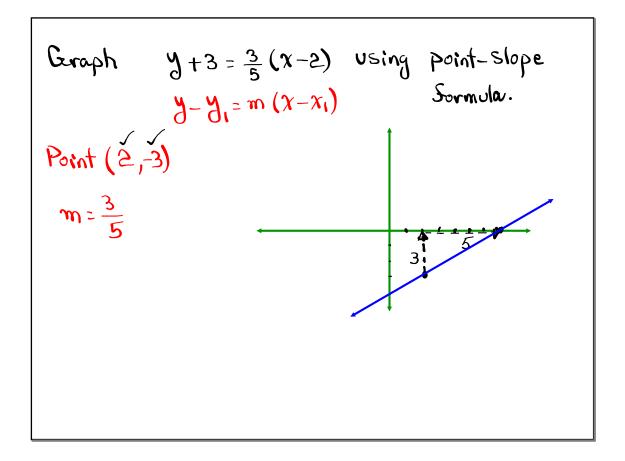
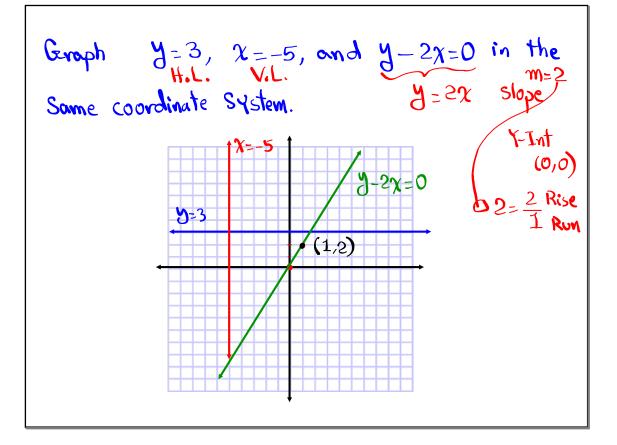


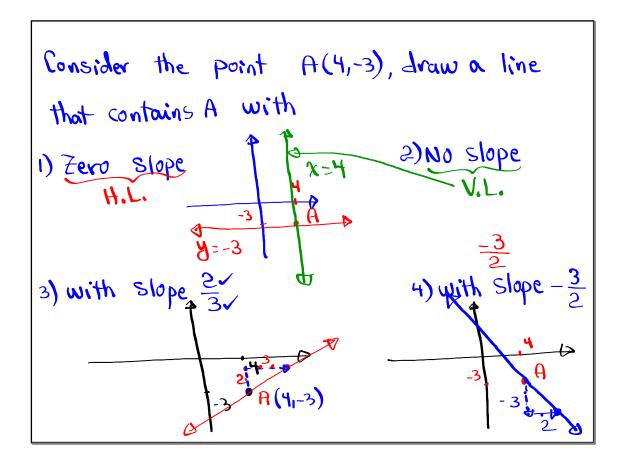
Consider
$$A(0, -3)$$
 and $B(8, 3)$
1) Draw \overline{AB} $M(\frac{0+8}{2}, -\frac{3+3}{2})$
 $M(4, 0)$
2) Sind midpoint M
 $OS \ \overline{AB}$ $m = \frac{6}{8} = \frac{3}{4}$ A
3) Sind Slope $OS \ \overline{AB}$
4) Sind $d(A, B) = \sqrt{(0-8)^2 + (-3-3)^2} = \sqrt{(-8)^2 + (-6)^2} = \sqrt{100} = 10$

Geraph 2x + 5y = 10 and $y = \frac{-2}{5}x - 3$ $m = \frac{-2}{5}$ in the same coordinate system. Slope-Int. 7-Int (0,-3) Intercept Method + Lines are Same. slope" Pavallel lines -) Different 5 Y-Int. -2









find slope of the line AB m= <u>y1 - y2</u> $\chi_1 - \chi_2$ 1) A(2,4), B(-2,5) $m = \frac{4-5}{2-(-2)} = \frac{-1}{2+2} = \frac{-1}{4}$ 2) A(-3,2), B(5,2) $m = \frac{2-2}{-3-5} = 0$ 3) A(-5, -3), B(-5, 3) $m = \frac{-3-3}{-5-(-5)} = \frac{-6}{-5+5} = \frac{-6}{0}$ No slope Undefined

Solve and graph Hint: Isolate χ in the $-6 < 3\chi - 3 < 18$ middle. Add 3 $-6+3 < 3x \leq 18+3$ $-3 < 3x \leq 21$ $-3 < 3x \leq 21$ Divide by 3 S.B.N. {x | -1<x<7} Canvas: Due date 3 I.N. (-1,7]