Hw #8 12,14,32,36,54,60,66,92,94,106 12) pts are (-2, -3) and (4, -1)a) $d = \sqrt{(-2-4)^2 + (-3-(-1))^2} = \sqrt{(-6)^2 + (-2)^2}$ = /36+4 = /40 = 2/10 b) midpt: (-2+4/2) = (1,-2) b) $d = \sqrt{(-2-10)^2 + (5-0)^2} = \sqrt{(-12)^2 + (5)^2}$ = 13c) midpt: $\left(-\frac{2+10}{2}, \frac{6+0}{2}\right) = \left(4, \frac{5}{2}\right)$ 32) {(x,y) | 1x1 \le 2 and |41 \le 3} 36)a) d from (7,3) to origin is $\sqrt{(7-0)^2 + (3-0)^2} = \sqrt{7^2 + 3^2} = \sqrt{58}$ requal d from (3,7) to origin is $\sqrt{(3-0)^2 + (7-0)^2} = \sqrt{3^2 + 7^2} = \sqrt{58}$ requal b) d from (a,b) to origin is $\sqrt{(a-0)^2 + (b-0)^2} = \sqrt{a^2 + b^2}$ requal d from (b,a) to origin is $\sqrt{(b-0)^2 + (a-0)^2} = \sqrt{a^2 + b^2}$ x intercept: y=0 $\frac{x^2}{9}+0=1$ $x^2=9$ $x=\pm 3=7(\pm 3,0)$ y intercept: x=0 $0+\frac{44}{5}=1$ 54) 奇 + 年= 1

