Week 3 wed 1 Aun Today (est day to take test 1! Hoye: TI graded by Monday (Preview: 1) h) eyn of line through (-1,7) and (4,2)

y-2=0(x+1) + y=2 6) ean of live prollel to (c) through (-4,8) 4=8 C) eyn of lim perpendicular to (a) turough (2,7) 2) advaced: which deforms as function of x? α) $(y-5)^2-25=x$ 6) |x|-y=3(X)=3+4 (X)-3=4 Vinputonx Note $(-\sqrt{3})^2 - 1$ and $(\sqrt{3})^2 = 1$ Note: 121=121 and 121=1-11 40 (1,1) and (1,-1) on (vum. fails 5. (1,-V3) and Vent. line test. (1, V3) on Come . mut fual, 3) $f(x) = \frac{X+7}{3x^2+2}$ find $f(\sqrt{y}+z)$ $f(\sqrt{y}+2) = \frac{\sqrt{y}+2+7}{3(\sqrt{y}+2)^2+2} = \frac{\sqrt{y}+9}{3(\sqrt{y}^2+4\sqrt{y}+4)+2}$

M 3. L 2

Later More Simplifying con be done. (untent: M3. d1

 $= \frac{\sqrt{y} + 9}{3y + 12\sqrt{y} + 12 + 2} = \frac{\sqrt{y} + 9}{3y + 12\sqrt{y} + 14}$