#7

Test 3 12, 15, 18-23 Test 2 34, 35

12. 43000 hundreds
= 4,300,000
$e^{-.25} = .975$
decrease 2.5% (2)

15. $\frac{3000}{25} = \frac{25(2)^{4t}}{25}$
$120 = 2^{4t}$
$\frac{\log 120}{4\log 2} = \frac{4t\log 2}{4\log 2}$
$1.72 \approx 2$ (1)

18.

	x^2+4	
x	x^2	$4x$
-7	$-7x$	-28

(2)

19. $11.90 + 4.3\ln x = 9.17(1.109)^x$
graph!
(19, 20.7)
≈ 8
(2)

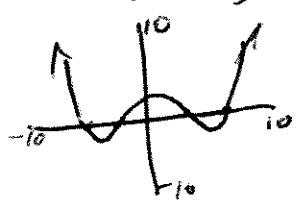
20. Remainder Theorem!
$f(2) = -5$
(1)

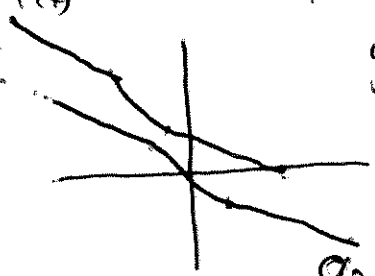
21. $(2+i)^3 = 2+11i = (1)$
$(2+i)(2+i)$
$4+4i+i^2 \Rightarrow (2+i)(3+4i)$
$6+11i+4i^2$
calc!

22. $a_0 = 6000$, $t = 12$
$a_0 = 6000$, $a_1 = a_{n-1}\left(1+\frac{.03}{12}\right)^{n}$

23. $y = -2x+5$
$x = -2y+5$
$\frac{x-5}{-2} = \frac{-2y}{-2}$
$g(x) = y = -\frac{x}{2} + \frac{5}{2}$ (1)

34. $x^4 - 25x^2 + 144$
$(x^2-9)(x^2-16)$
$(x+3)(x-3)(x+4)(x-4)$



35.


$g(x) = f(x-2) - 3$
2 right, 3 down
$g(x)$ is all y/c it reflects over