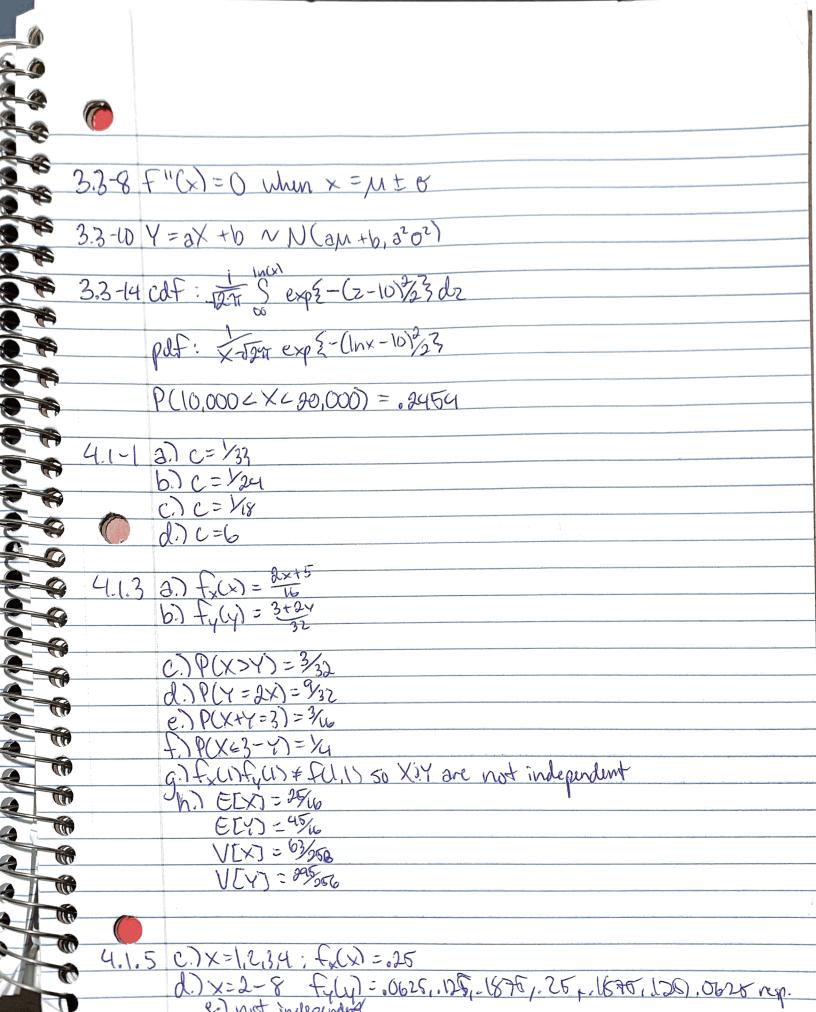
3.1.4 a) 
$$F[x] = \frac{a+b}{2} \times v \cup (4,5) \quad M = \frac{9}{2}$$
  
b)  $Var(x) = \frac{(b-a)^2}{12} = \frac{1}{2}$ 

C) 
$$P(4.24 \times 64.7) = 3 = 4.7 - 4.2 = 0.5$$

3.1-13 cdf = (1+e-x) -DCXCD pdf = -(1+e-x)-2 (-e-x) = e-x 3.1.4 F(x) = \( \frac{1}{2} \) OCXC1 \\ \( \frac{1}{2} \) QCXC3 elsewhere 0 x c 0 5° ± dt = ± 0 \( \times \) \( \time b) F(x) = (/2) X23 C.)  $F(\chi_{.25}) = \frac{\chi_{.25}}{2} = \frac{1}{4}$   $\chi_{.25} = \frac{1}{2}$ d.)  $\chi_{.25} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$   $\chi_{.25} = \frac{1}{2}$ e.)  $F(\chi_{.25}) = \frac{\chi_{.25}}{2} - \frac{1}{2}$   $\chi_{.25} = \frac{1}{2}$   $\chi_{.25} = \frac{1}{2}$ 3.1-20 a.) Ixdx + \$ = 1  $(\frac{x^2}{2})_0 + c(-\frac{x^2}{2})_0 = 1$ 12 + 1/2 = 1 ° C=1 b.) u= 9x(x)dx + 5x(=1)dx = 43 C.) E[x2] = 10 gr2 does not exist d)PU24X42)=0.75

3.2-2 2) f(x) = 2/3e-23 b.) P(x>2) = 5 3 e 3 dx = 1/e/3 u= 3 x du = 3 du 3.2-5 a) F(x) = 50 x 6 8 Si texp = Tielt SExca b.) M = Sx to exp 2-x-23 = S+0 02 = F[x] - (E[x])2 = 02 3.2.10 mgf gamma = 1-0+9 E[x] = M'(0) = QO Var(x) = 02 = E[x2) - (E(x))2 = x02 3.2-3 M = -1000 In (.92) 3.3-30.) 1.96 b.) 1.96 c.) 1.645 d.) 1.645 3.3-1 87.2784 b.) .7209 0.7.9616 d).0019 es. 9500 f.). 6826 g.) .9544 h.) .9974



4.2-1	$Mx = \frac{25}{10}$
	My = 47 02 = 63
	0 <sup>2</sup> = 205
	$M_{X} = \frac{15}{16}$ $M_{Y} = \frac{45}{16}$ $0^{2}_{Y} = \frac{53}{256}$ $0^{2}_{Y} = \frac{205}{256}$ $0_{XY} = \frac{5}{256} \div \sqrt{\frac{3}{26}(\frac{205}{256})}$
	$b = \rho \frac{dy}{dx}$ $a = My - \rho \frac{dy}{dx} My$
4.27	a) no b) oxy = p = 0
4.2-9	c) fun: 647, tun=247, tun=32, tul)=32, tul)=32
	divo