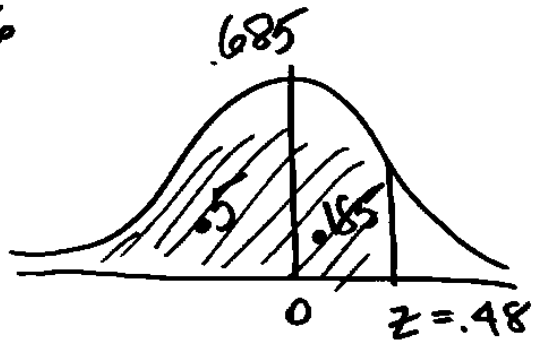
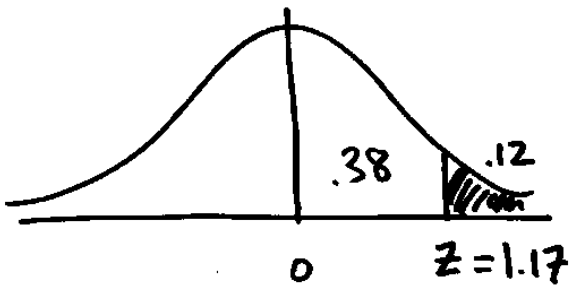
P.186

15.



17.



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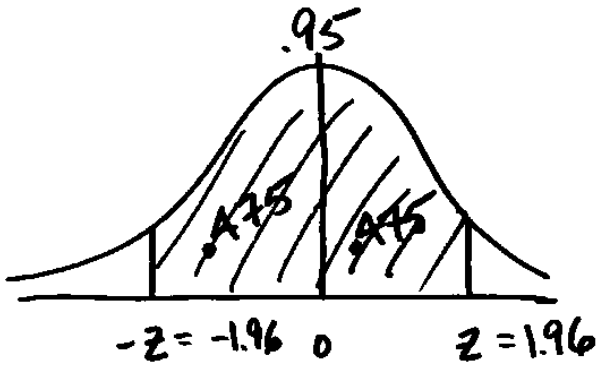
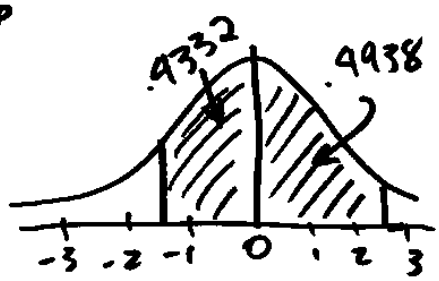
②

19.



P.191

23. Norm($\mu = 410, \sigma = 2$)



$P(407 < x < 415) = P\left(\frac{407-410}{2} < Z < \frac{415-410}{2}\right)$

$= P(-1.5 < z < 2.5) = .4332 + .4938 = .9270$

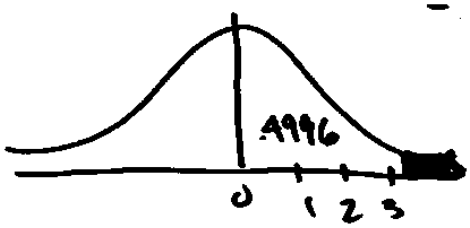
(3)

31. Norm($\mu = 50, \sigma = 1.50$)

$P(X > 55) = P\left(Z > \frac{55-50}{1.50}\right)$

$= P(Z > 3.33)$

$= .5 - .4996 = .0004$



33. Norm($\mu = 2600, \sigma = 50$)

$P(2520 < X < 2670) = P(-1.6 < Z < 1.4)$

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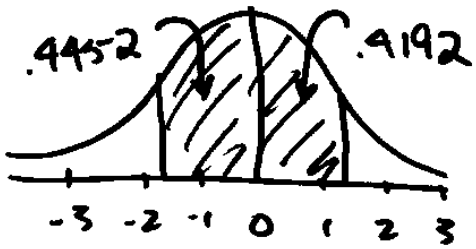
(4)

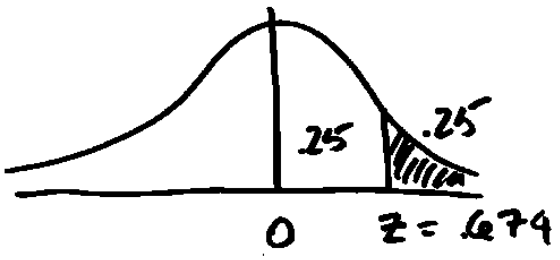
$= .4452 + .4192$

$= .8644$



p. 196

43. Norm($\mu = -61, \sigma = 22$)

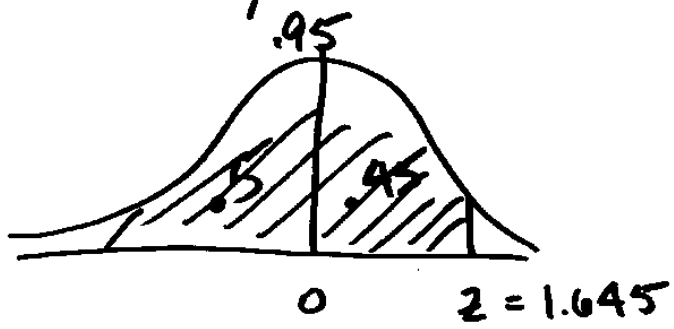


$X = \sigma Z + \mu$

$= 22(.67) + (-61)$

$= -46.26$

49. Norm($\mu = 25000$, $\sigma = 5000$)



$X = 5000(1.645) + 25000$

$= \$33{,}225$

LAB 3 due Tues Nov 21