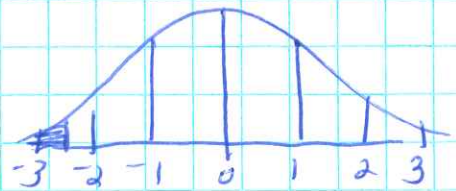


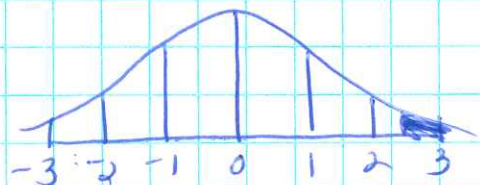
HW Ch. 2.2

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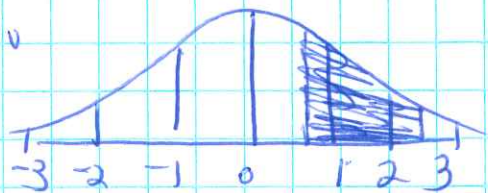
30) a) $P(z < -2.46) = 0.699\%$



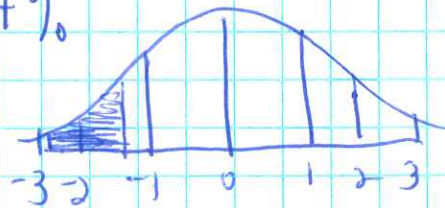
b) $P(z > 2.46) = 0.699\%$



c) $P(0.89 < z < 2.46) = 17.98\%$

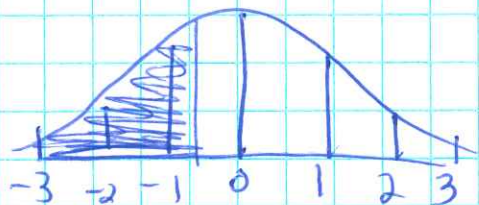


d) $P(-2.95 < z < -1.27) = 10.04\%$

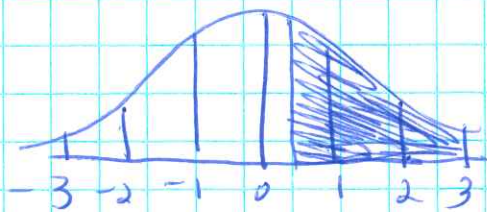


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32) a) $P(z < -0.6745) = 25\%$



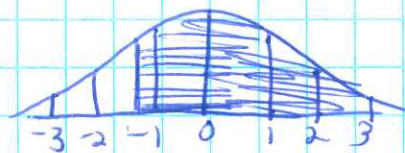
b) $P(z > 0.2533) = 40\%$



$$\textcircled{34} P(X > 100) = P\left(z > \frac{100 - 110}{25}\right) = P(z > -0.4)$$

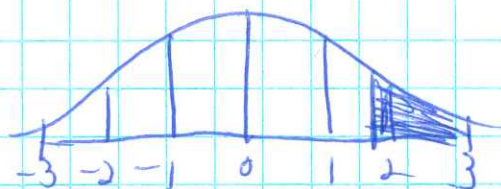
a)

$$= 65.54\%$$



$$\text{b) } P(X > 150) = P\left(z > \frac{150 - 110}{25}\right) = P(z > 1.6)$$

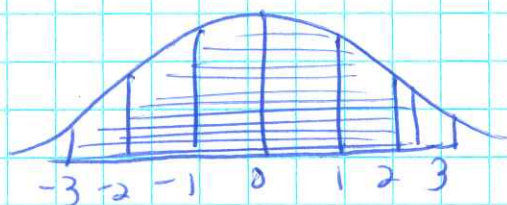
$$= 5.47\%$$



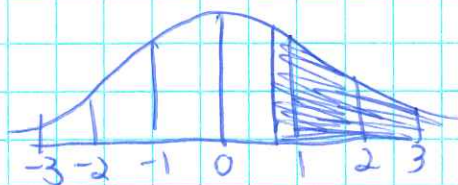
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$$\textcircled{44} P(z < 2.05) = 98\%$$

a)



$$\text{b) } P(z > 0.77) = 22\%$$



$\textcircled{50}$ Females: $\mu = 141.7$ lb med = 133.2 lb

median < μ * skew right

$Q_1 = 118.3$ lb

$Q_3 = 157.3$ lb

from med to Q_1 : $133.2 - 118.3 = 14.9$

from med to Q_3 : $157.3 - 133.2 = 24.1$

boxplot

