Review 6.3 | p 287
(6.90) Normal (
$$\mu = 68$$
, $\sigma = 10$) let this be X
a) blip 73 and 80 \Rightarrow P(73 < X < 80)
 $Z_{73} = \frac{X-\mu}{\sigma} = \frac{73-68}{10} = 0.5$
 $Z_{80} = \frac{80-68}{10} = 1.2$
P(73 < X < 80) = 0.1935
b) at least 75 \Rightarrow P(X > 75)
 $I - P(X < 75)$
 $Z_{75} = \frac{75-68}{10} = 0.7$
 $I - P(Z < 0.7) = I - 0.7580$
 $= 0.2420$
P(X > 75) = 0.2420
(6.102) Time 5/L elephant pregnanties is a) less than 2 years
Let X be our variable P(3)

5) 6/4 3 and 5 years <years>

Let X be our variable P(X < 2) $Z = \frac{X-\mu}{\sigma} = \frac{2-4.01}{0.94} = -2.138$ P(Z < -2.138) = 0.01631.63% of elephants have time blu pregnancies less than two years.

P(3 < X < 5) $P(X < 5) - P(X < 3)^{3}$ $A = \frac{5 - 4.01}{0.94} = 1.053$ $A = \frac{3 - 4.01}{0.94} = -1.074$ $A = \frac{3 - 4.01}{0.94} = -1.074$