

5.14

10<sup>th</sup> Percentile of standard Normal Distribution ...

Using the tables of standard Normal distribution, the closest value of

$P(X) = 0.1$  is 0.1003 so we use this

value of  $P(X) = 0.1003$  and find the value of  $X$  where  $P(X) = 0.1000$  which is  $\boxed{-1.2815}$

So  $\boxed{X = -1.2815}$