$X \sim N(21.3, 1.7^2)$

a) $P(21 < X < 22) = P\left(\frac{21-21.3}{1.7} < \frac{X-21.3}{1.7} < \frac{22-21.3}{1.7}\right) =$
$P(-0.18 < Z < 0.41) = \Phi(0.41) - \Phi(-0.18) = 0.6591 -$
$0.4286 = 0.2305$

b) $P(X > 23.1) = 1 - P(X < 23.1) = 1 - P\left(\frac{X-21.3}{1.7} < \frac{23.1-21.3}{1.7}\right) =$
$1 - P(Z < 1.06) = 1 - \Phi(1.06) = 0.1446$

c) $P(X < 25) = P\left(\frac{X-21.3}{1.7} < \frac{25-21.3}{1.7}\right) = P(Z < 2.18) =$
$\Phi(2.18) = 0.9854$