

Standard 2.03 - key

① A)

② A) logistic

B) there's a limit to the # of people who can exist at one time (resources are limited) so cable subscribers are limited

C) 64.6 millions

Standard 2.06 - Key

① $x(t) = t+4$ $x(t) = t+4$
 $y(t) = 3t-1$ $y(t) = 2t+9$

A) $x = t+4$ $y = 3t-1$
 $x-4 = t$ $y = 3(x-4)-1$
 $y = 3x-12-1$
 $y = 3x-13$

B) $x = t+4$ $y = 2t+9$
 $x-4 = t$ $y = 2(x-4)+9$
 $y = 2x-8+9$
 $y = 2x+1$

C) $x = t+4$ $x = t+4$

$t+4 = t+4$

$t = t$

*check y value
at any time

$y = 3(2)-1$

$y = 2(2)+9$

$y = 6-1$

$y = 4+9$

$y = 5$

$y = 13$

Don't crash