



You are downloading a song. The percent y of megabytes remaining to download after x seconds is

$$y = -10x + 100$$

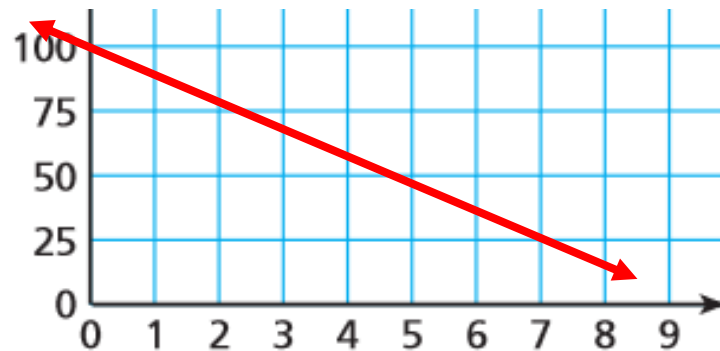
RATE OF CHANGE

$$\frac{100 - 0}{0 - 10} = \frac{100}{-10} = -10 \text{ mb/s}$$

X-INTERCEPT
 $(0) = -10x + 100$
 $0 = -10x + 100$
 $-100 = -10x$
 $10 = x$
(10, 0)

Y-INTERCEPT
 $y = -10(0) + 100$
 $y = 0 + 100$
 $y = 100$
(0, 100)

X	-10x + 100	Y	(x, y)
0	-10(0) + 100	100	(0, 100)
2	-10(2) + 100	80	(2, 80)
4	-10(4) + 100	60	(4, 60)
6	-10(6) + 100	40	(6, 40)



INTERPRETATION:

- When no seconds have passed, 100% of the song has yet to download.
- When 10 seconds have passed, there are no megabytes of song left to download.