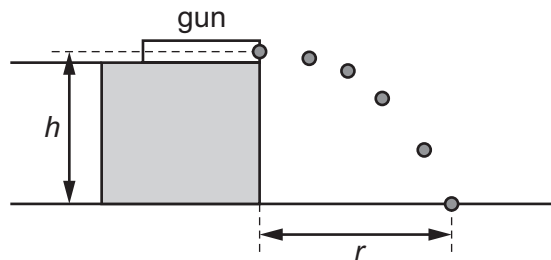
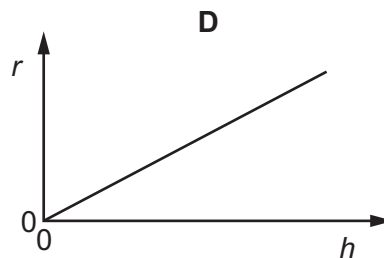
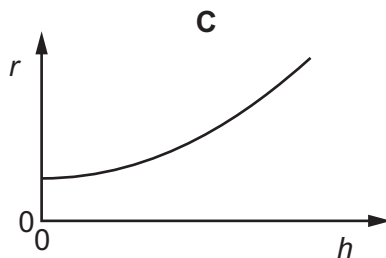
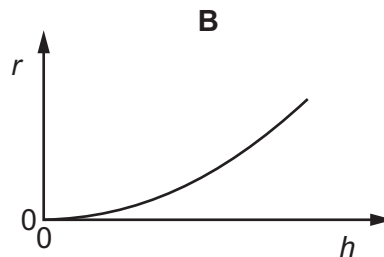
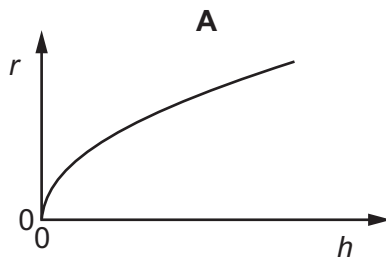


- 7 A student uses a spring gun to launch a steel ball with a constant horizontal velocity. He varies the height h of the gun and measures the horizontal displacement r of the ball when it hits the ground.



Which graph shows the variation with height h of the horizontal displacement r ?



- 8 Two cars X and Y are positioned as shown at time $t = 0$