(Lial, Greenwell & Ritchey) A study found that the peak vertical force on a trotting pony increased linearly with the pony’s speed. When the force reached a critical level, the pony switched from a trot to a gallop. For one pony, the critical force was 1.16 times its body weight. It experienced a force of 0.75 times its body weight at a speed of 2 meters per second and a force of 0.93 times its body weight at 3 meters per second. At what speed did the pony switch from a trot to a gallop?