



Unit VII – Problem 7 – Physiology: Summary of Muscle Reflexes

Reflex	Number of synapses	Stimulus	Afferent fibers	Response
Stretch reflex (knee-jerk)	Monosynaptic	Muscle is stretched	Ia	Contraction of the muscle
Golgi tendon reflex (clasp-knife)	Disynaptic	Muscle contracts	Ib	Relaxation of the muscle
Flexor-withdrawal reflex (after touching a hot stove)	Polysynaptic	Pain	II, III and IV	Ipsilateral flexion, contralateral extension