In the movie Abraxas vs. Terminator, Abraxas ( $m_A$ =100 kg) is still chasing the Terminator ( $m_T$ =80 kg). Currently the Terminator is trying to escape by paddling a canoe ( $m_C$ =20 kg) at 4 m/s away from the dock. Abraxas jumps onto the end of the canoe with a horizontal velocity of 10 m/s. What is the velocity of the system? Soon thereafter, the Terminator jumps from the front of the canoe with a relative velocity of 15 m/s. Find the final velocity of Abraxas (sitting in the canoe).

