## 20-P-KM+AF-025

Dependent Motion: Intermediate

Q: If at point a the block is pulled down w/ cm/s, downwards. If block B is pushed up with B m/s, what is A nots?

l( (blue) = SA + SA - SE + SB - SE + SC - SO + SB - SO l2 (green) = SB + SD l3 (purple) = SE + SA

0 = 2VA + 2VB + VC - 2VO - 2VE 0 = VB + VD 0 = VE + VA

 $V_{B} = V_{B}$   $V_{C} = -C$   $V_{E} = -V_{A}$   $V_{D} = -V_{B}$   $O = 2V_{A} + 2V_{B} + V_{C} - 2(-V_{B}) - 2(-V_{A})$   $O = 4V_{A} + 4V_{B} + V_{C}$   $V_{A} = -4V_{B} - V_{C} = -4(B) - (-C)$