## EXAM GRAPHICS

1, 3D uniform grid -> consecutive points are 8 units apart

consider point  $\rho$  (13, 19, 25) and g (17, 27, 15) multiples of 8

p (13, 19,25) q(17, 27,15)

43 = 8 + 5 p = 16 + 1 19 = 16 + 3  $27 = 2^{4} + 3$ 25 = 24 + 1 15 = 6 + 7

(8,24,24) (16,24,32) (16,32,8) (16,32,8)

(8,16,24) (16,18,24) (16,24,8) (24,24,8)

 $v_{ijj,K} = (8,16,24)$   $v_{ijj,K} = (16,24,8)$   $v_{i+1,j,K} = (16,16,24)$   $v_{i+1,j,K} = (24,24,8)$ 

Vijiti, K = (8,24,24) Vijiti, K = (24,32,8)

V., i, K+1 = (8,16,32) V., i, K+1 = (16,24,16)

 $V_{i+1,j+1,K} = (16, 24, 24)$   $V_{i+1,j+1,K} = (24, 32, 8)$   $V_{i+1,j,K+1} = (16, 16, 32)$   $V_{i+1,j,K+1} = (24, 24, 16)$ 

 $V_{i,j+1,K+1} = (16, 16, 32)$   $V_{i,j+1,K+1} = (24, 24, 16)$   $V_{i,j+1,K+1} = (8,24,32)$   $V_{i,j+1,K+1} = (16,32,16)$ 

Viri, jri, Kt1 = (16,24,32) Viri, jri, Kt1 = (24, 32, 16)

Edinar interpolation to idue of p-a(p)

1318 correlation  $p-a(p) = (1-x)(1-y)(1-z) \int_{0}^{\infty} (v_{i,j,k}) + (1-x)(1-y) \int_{0}^{\infty} (v_{i,j,k+1}) dv_{i,j,k+1} dv_{i,$ 

 $\mu_{\Delta}(\rho) = \left(1 - \frac{5}{8}\right) \left(1 - \frac{3}{8}\right) \left(1 - \frac{1}{8}\right) \cdot 0.01 + \left(1 - \frac{9}{8}\right) \left(1 - \frac{3}{8}\right) \cdot \frac{1}{8} \cdot 0.605 + \frac{9}{8}\left(1 - \frac{3}{8}\right) \left(1 - \frac{1}{8}\right) \cdot 0.02$   $+ \frac{5}{8} \cdot \left(1 - \frac{3}{8}\right) \cdot \frac{1}{8} \cdot 0.025 + \left(1 - \frac{5}{8}\right) \frac{3}{8} \cdot \left(1 - \frac{1}{8}\right) \cdot 0.015 + \left(1 - \frac{9}{8}\right) \frac{3}{8} \cdot \frac{1}{8} \cdot$