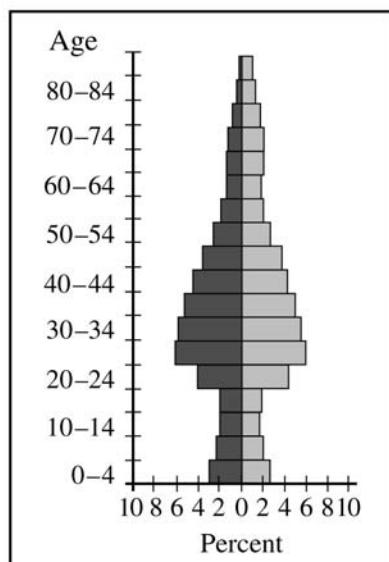
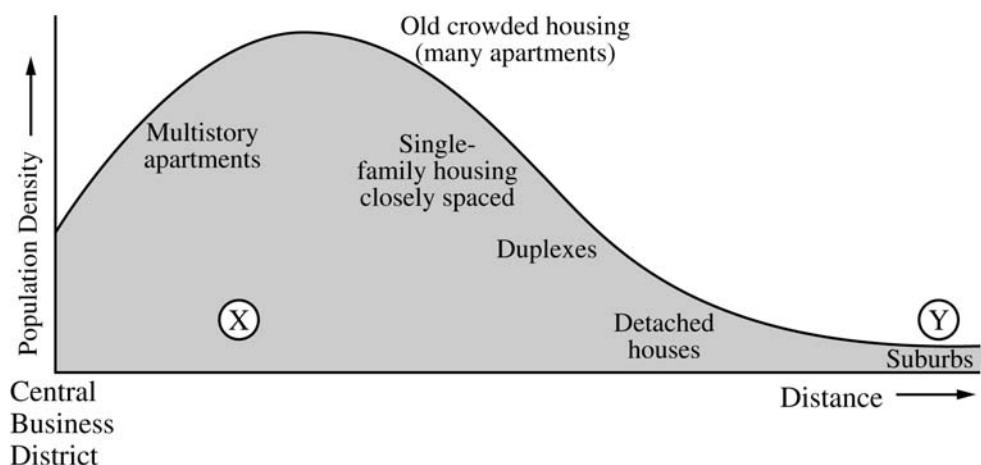
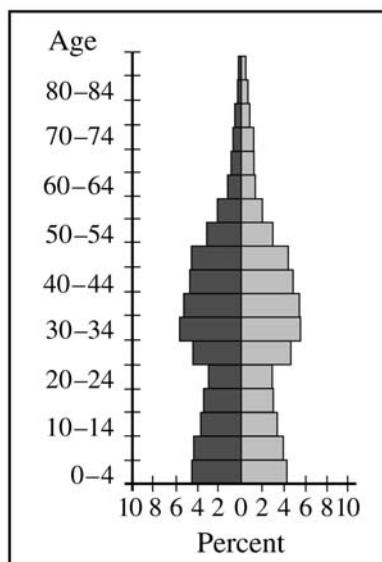


## 2004 AP® HUMAN GEOGRAPHY FREE-RESPONSE QUESTIONS



(X)



(Y)

3. The graph shown above describes the residential density profile of a major North American city. The population pyramids labeled X and Y describe the demographic composition of places located at points X and Y on the graph of population density.
- Use the concept of land rent (sometimes called bid-rent) to explain the profile of residential population density shown on the graph.
  - Using the population pyramids labeled X and Y, identify and explain TWO differences in the demographic composition between the pyramids.
  - Explain the relationship between the demographic differences identified in part B, above, and residential land use patterns at point X and point Y, respectively, in the graph of population density.

**END OF EXAMINATION**

**AP® HUMAN GEOGRAPHY  
2004 SCORING GUIDELINES**

**Question 3**

- A.** (2 points) 1 point for population density and/or land rent decline with increasing distance from the CBD because there is less competition for less accessible land, 1 point for the profile dips at the CBD because commercial/industrial land users are willing/able to pay higher rent for a central location than residential land users are willing/able to pay
- B.** (2 points) 1 point for each difference identified (see age cohorts and description in table below), 2 points maximum (not acceptable: country-scale analysis of these local-scale populations)

% of 0-20	% of 35-50	% of 20-30	%>60	%>55 Female
-lower at X -higher at Y	-lower at X -higher at Y	-higher at X -lower at Y	-higher at X -lower at Y	-higher at X -lower at Y

- C.** (4 points) 1 point each for explanation of two bullets related to X, 1 point each for explanation of two bullets related to Y

<b>Explanation for population living at Y:</b>	<b>Explanation for population living at X:</b>	
<b>2 pts.</b>	<b>2 pts.</b>	
<ul style="list-style-type: none"> <li>• Families with children at Y</li> <li>• Lack of affordable single family housing and outdoor space at X</li> <li>• Negative perception of neighborhood at X (e.g., crime)</li> </ul> <b>OR</b> <ul style="list-style-type: none"> <li>• Availability of affordable single family housing and outdoor space at Y</li> <li>• Cars enable low density development at Y</li> <li>• Positive perception of neighborhood at Y (e.g., safety, good schools)</li> </ul>	<ul style="list-style-type: none"> <li>• College, young workers, people without children at X</li> <li>• Distance from city amenities at Y</li> <li>• Cost of transportation to jobs in CBD at Y</li> </ul> <b>OR</b> <ul style="list-style-type: none"> <li>• Affordable high density housing at X</li> <li>• City amenities (museums, night life, music) at X</li> <li>• Peer-group attraction at X</li> </ul>	<ul style="list-style-type: none"> <li>• Retirees, older persons without dependents (not acceptable: just "elderly") at X</li> <li>• Down-sizing from larger housing at Y after retirement</li> <li>• Distance from city amenities at Y</li> </ul> <b>OR</b> <ul style="list-style-type: none"> <li>• Aging in place at X</li> <li>• Affordable high density housing at X</li> <li>• Group and social housing (retirement and nursing homes) at X</li> <li>• In-migration due to retirement, downsizing, amenities, affordability at X</li> <li>• Female longevity</li> </ul>