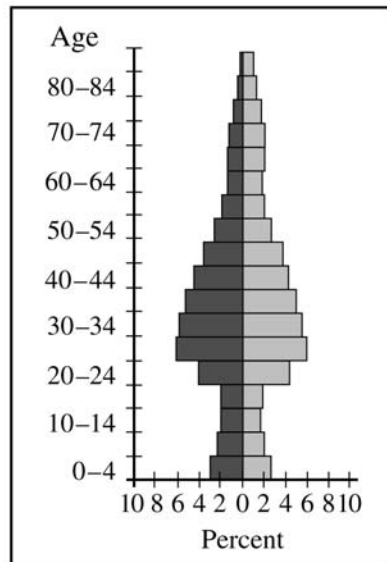
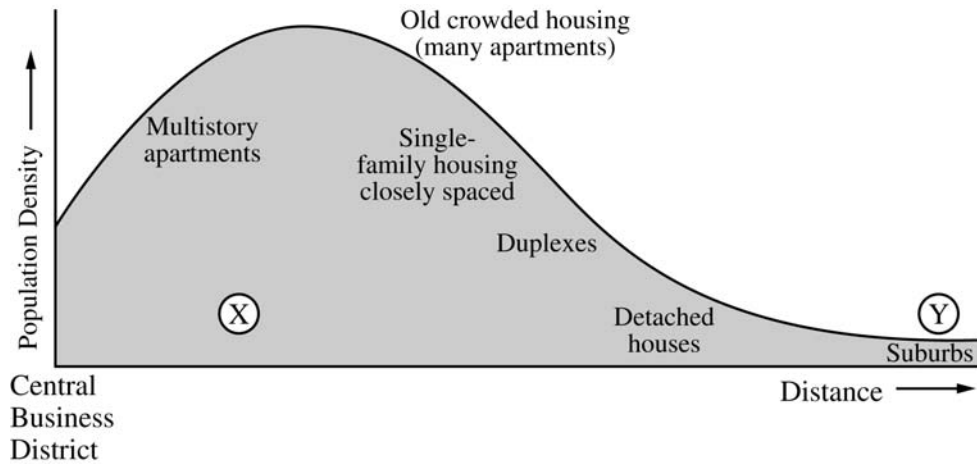
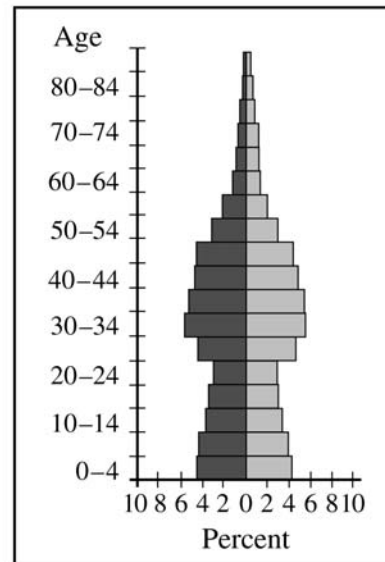


2004 AP[®] HUMAN GEOGRAPHY FREE-RESPONSE QUESTIONS



(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

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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

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