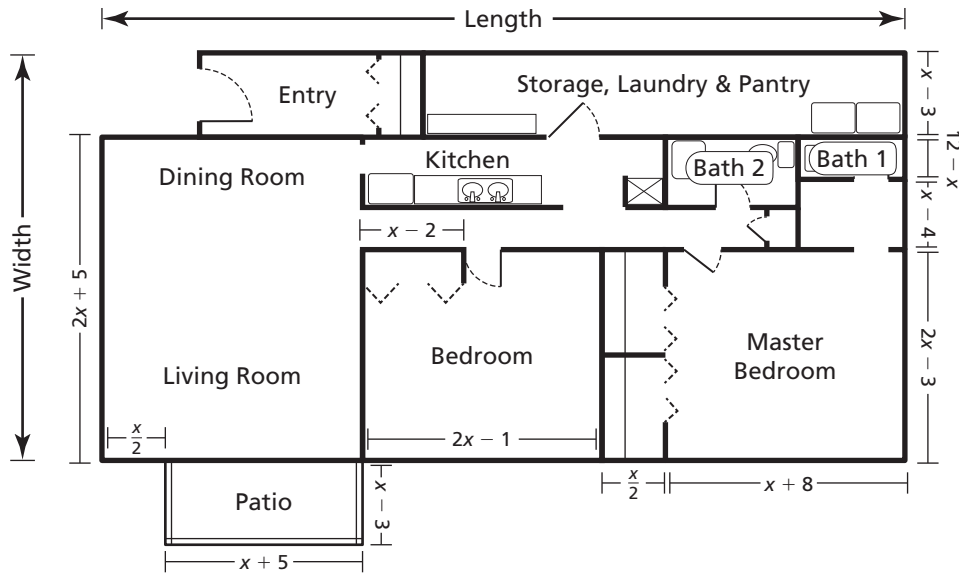


7.1 Enrichment and Extension

House Plans



Use the diagram above to answer the following questions. All measurements are in feet.

- Find the length of the two-bedroom apartment in terms of x .
- Find the width of the two-bedroom apartment, not including the patio, in terms of x .
- Find the perimeter of the whole apartment, including the patio, in terms of x .
- Find the perimeter of the living/dining area in terms of x .
- Find the perimeter of the master bedroom, including the two closets, in terms of x .
- The perimeter of the living/dining area is 83 feet. What is the value of x ?
Be sure to include units of measure.
- The perimeter of the master bedroom, including the two closets, is 73 feet. What is the value of x ?
- The length of the apartment is 57 feet. What is the value of x ?
- Find the area of the whole apartment, excluding the patio, in terms of x .
- Find the area of the whole apartment, including the patio, in terms of x .
- The area of the kitchen is $x^2 - 5x + 6$. What is the width of the kitchen?