ACCT 7

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| The number of X-rays taken and X-ray costs over the last nine months in Beverly Hospital are given below: |

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| Month | X-Rays Taken | X-Ray Costs |
| January | 6,600 | $21,120 |
| February | 13,800 | $35,460 |
| March | 13,100 | $34,576 |
| April | 11,100 | $29,808 |
| May | 8,500 | $27,200 |
| June | 10,500 | $26,256 |
| July | 5,100 | $16,320 |
| August | 10,800 | $26,726 |
| September | 5,800 | $18,560 |
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| **Required:** | |
| **1.** | Using the high-low method, estimate the cost formula for X-ray costs. **(Round the "Variable cost  per X-ray" to 2 decimal places and the "Fixed cost" to the nearest dollar amount. Omit the "$" sign in your response.)** |

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| Y  = | $ | + | $ | X |

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| **2.** | Using the cost formula you derived above, what X-ray costs would you expect to be incurred during a month in which 4,650 X-rays are taken? **(Omit the "$" sign in your response.)** |

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| Variable cost | $ |
| Fixed cost |  |
|  |  |
| Total cost | $ |