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| 1)  You are estimating the cost of optical sensors based on the resolution of the sensor. You decide to calculate the coefficient of determination (R2) as part of determining the goodness of fit of an equation. Using the preliminary calculations below, calculate the R2 and determine its meaning.  |
|  |
| Description: L7_e3q2.jpg |
|  |
|    92.80% of the variation in the cost is being explained by the resolution.  |
|    92.80% of the variation in the resolution is being explained by the cost.  |
|    7.75% of the variation in the resolution is being explained by the cost.  |
|    7.75% of the variation in the cost is being explained by the resolution.  |

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| 2)  You have calculated the following power model and associated unit space values: You would select the:  |
|  |
| Description: L7_e7q2.jpg |
|  |
|    Linear equation because it has a lower standard error than the power model.  |
|    Power equation because it has a higher standard error than the linear model.  |
|    Linear equation because it has a higher standard error than the power model.  |
|    Power equation because it has a lower standard error than the linear model.  |

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