**Objective 7-4 Exercise B**

* Determine which relationship in each of the following “Quads” (sets of 4) represents a NON-PROPORTIONAL relationship. Write down its quadrant number and briefly explain WHY it is non-proportional.
* Remember, our “Quads” are invisibly numbered like the quadrants on a coordinate plane.

II.

I.

III.

IV.

Ex.

➀Answer:

➁Answer:

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➃Answer:

y = ½x

y = 5x + 8

y = 2x

y = 1.25x

➂Answer:

|  |  |
| --- | --- |
| # of  cupcakes | total  cost |
| 10 | $2.50 |
| 20 | $5.00 |
| 24 | $6.00 |
| 30 | $7.50 |

|  |  |
| --- | --- |
| # of  cupcakes | total  cost |
| 10 | $2.00 |
| 20 | $4.00 |
| 24 | $4.80 |
| 60 | $12.00 |

|  |  |
| --- | --- |
| # of  cupcakes | total  cost |
| 10 | $3.00 |
| 20 | $6.00 |
| 24 | $7.00 |
| 30 | $9.00 |

|  |  |
| --- | --- |
| # of  cupcakes | total  cost |
| 10 | $3.50 |
| 20 | $7.00 |
| 24 | $8.40 |
| 36 | $12.60 |

* Determine which relationship in each of the following “Quads” (sets of 4) represents a NON-PROPORTIONAL relationship. Write down its quadrant number and briefly explain WHY it is non-proportional.
* Remember, our “Quads” are invisibly numbered like the quadrants on a coordinate plane.

II.

I.

III.

IV.

Ex.

➁Answer:

➀Answer:

|  |  |
| --- | --- |
| # of  sodas | total  cost |
| 10 | $2.50 |
| 20 | $5.00 |
| 25 | $6.25 |
| 30 | $7.50 |

|  |  |
| --- | --- |
| # of  sodas | total  cost |
| 10 | $2.50 |
| 20 | $5.00 |
| 50 | $11.50 |
| 60 | $15.00 |

|  |  |
| --- | --- |
| # of  sodas | total  cost |
| 10 | $3.00 |
| 30 | $9.00 |
| 55 | $16.50 |
| 60 | $18.00 |

|  |  |
| --- | --- |
| # of  sodas | total  cost |
| 10 | $3.00 |
| 30 | $9.00 |
| 45 | $13.50 |
| 60 | $18.00 |

➃Answer:

y = 3x + 5

y = ¼x

y = 2.50x

y = 5x

➂Answer: