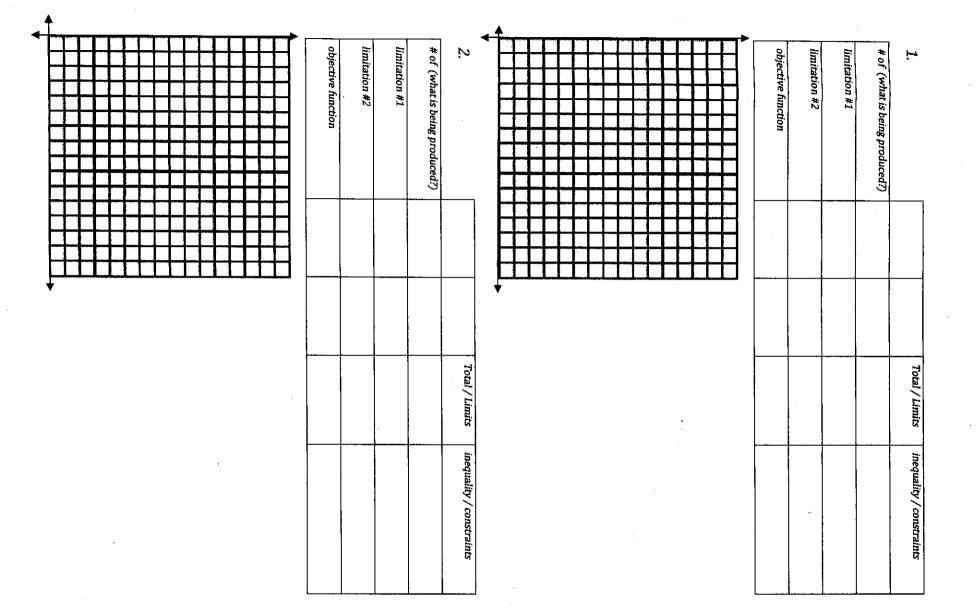
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- 'n sewing. The profit on a full-length coat is \$7 and \$5 on a three-quarter-length coat. the maximum profit? employees to devote up to 40 hours to cutting patterns and up to 32 hours to Determine how many coats of each type should be made to maximize profit. What is per coat and 1 hour for the three-quarter-length coat. The manufacturer has enough the three-quarter length patterns. The sewing time for the full-length coat is 1 hour It takes 2 hours to cut out the patterns of the full-length and takes 1 hour to cut out A manufacturer of coats produces floor-length coats and three-quarter-length coats.
- 1 base for this breakfast to meet the given requirements and minimize cost. number of tablespoons of each type of protein powder that should be used as the tablespoon and milk protein powder costs \$0.30 per tablespoon. has 2 grams protein and 4 grams carbohydrates. Soybean powder cost \$0.70 per protein and 2 grams carbohydrates. A tablespoon of protein made from milk solids carbohydrates. A tablespoon of protein powder made from soybeans has 5 grams meal. The breakfast meal must contain at least 12 grams protein and 8 grams A nutritionist is requested to devise a formula for a base for an instant breakfast Determine the
- to maximize profit? What is the profit? of distilled water, how many bottles of each type of cleaner should be made in order \$1.25 per bottle. If the manufacturer has 1200 ounces of ammonia and 800 ounces distilled water. The profit on a bottle of CleanIt is \$1 per bottle and for TooDirty is A company makes two types of window cleaner, CleanIt and TooDirty. The formula for a bottle of CleanIt contains θ ounces of ammonia and θ ounces of distilled water. The formula for a bottle of TooDirty contains 12 ounces of ammonia and 4 ounces of
- 4. profit? What is the maximum profit? profit of \$8 per quart on extra-rich lotion. You have 24 cups oil and 18 cups cocoa cups cocoa butter. You will make a profit of \$10 per quart on regular lotion and a oil and 1 cup cocoa butter. A quart of extra-rich skin lotion contains 1 cup oil and 2 Suppose you make and sell skin lotion. A quart of regular skin lotion contains 2 cups How many quarts of each type of lotion should you make to maximize your



limitation #2 objective function limitation #2 limitation #1 # of (what is being produced?) objective function limitation #1 # of (what is being produced?) Total / Limits Total / Limits inequality / constraints inequality / constraints