Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| **Solve for the indicated variable.** | |
| **1.** (y)  A.  B. y  C. y  D. | **2.** *E = (M)*    A. M =  B. M =  C. M =  D. M = |
| **Justify the missing step.** | |
| **3.**   |  |  | | --- | --- | | **Equation** | **Steps** | | **3x + 12 = 8x - 18** | **Original** | | **12 = 5x - 18** | ??????? | | **30 = 5x** | **Addition Prop. of Equality** | | **6 = x** | **Division Prop. of Equality** |   A. Distributive Property  B. Associative Property  C. Subtraction Property of Equality  D. Division Property of Equality | **4.**   |  |  | | --- | --- | | **Equation** | **Steps** | | **3(5x+1) = 13x +5** | **Original** | | **15x +3 = 13x +5** | ?????? | | **2x + 3 = 5** | **Subt. Property of Equality** | | **2x = 2** | ?????? | | **X = 1** | **Division Property of Equality** |     A. Distributive Property/Combine Like Terms  B. Distributive Property/Subt. Prop of Equality  C. Combining Like Terms/Distributive Property  D. Combining Like Terms/Subt. Prop of Equality |
| **5. Identify the slope and**  **y-intercept, then graph.**  y = 2x -4  **m = \_\_\_\_\_\_\_\_**  **b = \_\_\_\_\_\_\_\_** | |
| **6.** The formula *P = 2L + 2W*  tells the perimeter of a package.  a) Solve the equation for l.  b) What is the length of a package that has a perimeter of 20 cm and a width of 5? | |
| **7.** Rewrite the equation into slope-intercept form: | |
| **8.** Rewrite the equation into slope-intercept form. Then graph the line. | |
| **9.** Write a linear equation to model the following situation:  Joe has 4 less than 7 times as many shirts as Mark. Joe and Mark have 140 shirts. | |