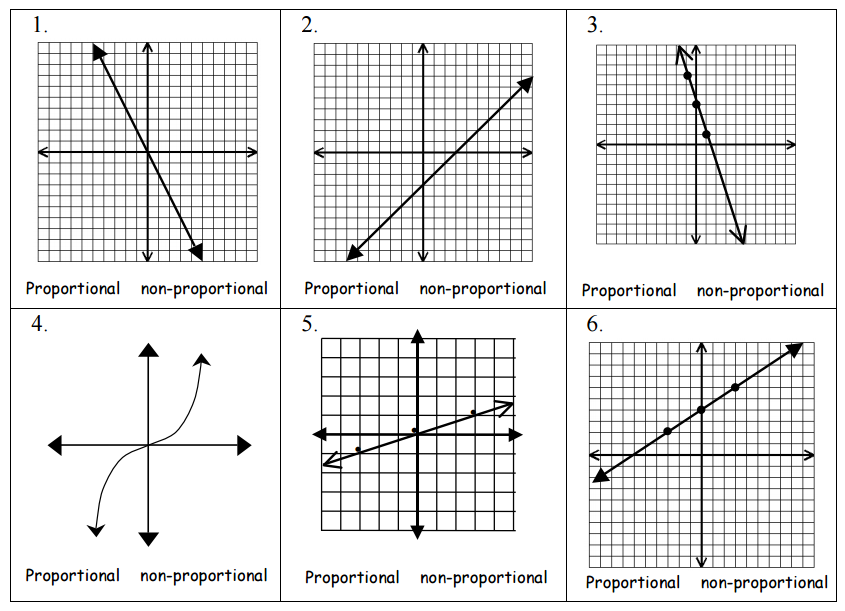
**Lesson 4.2bc Homework Practice: *Proportional/Non-Proportional Functions***

**Determine if the functions below are proportional/non-proportional & increasing/decreasing**

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| **7.) y = ¾ x + 1** | **8.) xy = 10** | **9.) y + x = 3** |
| **10.)** | | |



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| 11.) What is the value of *x* in the equation: 2*x*  15  3*x*  5?  A 2 C 4  B 3 D 5 | 15.) Which of the following lists shows the numbers below in order from **least** to **greatest**?  0.65, 6 × 104, 6 × 102, 0.065  A 6 × 104, 6 × 102, 0.065, 0.65  B 0.65, 0.065, 6 × 102, 6 × 104  C 6 × 102, 6 × 104, 0.065, 0.65  D 6 × 104, 0.065, 6 × 102, 0.65 |
| 12.) Which equation below has no solution?  A 2(2*x*  1)  4*x*  2  B 3*x*  7  *x*  C 3*x*  6  *x*  2  D 5*x*  1  5*x*  3 | 16.)   |  |  |  |  |  | | --- | --- | --- | --- | --- | | ***x*** | 1 | 1 | 4 | 5 | | ***y*** | 2 | 5 | 2 | 6 |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | ***x*** | 1 | 1 | 4 | 5 | | ***y*** | 2 | 5 | 2 | 6 | |
| 13.) How is the number below written in scientific notation?  120  A 1.2 × 101  B 12 × 101  C 1.2 × 102  D 12 × 102 |
| 14.) Which equation shows a non-proportional relationship?  A *y*  2*x*  C *y*  2*x*  0  B *y*  *x* D *y*  2*x*  2 | 17.) Which of the following sets of ordered pairs does **not** represent a function?  A {(1, 2), (2, 3), (4, 5), (3, 3)}  B {(1, 3), (2, 3), (6, 5), (7, 3)}  C {(1, 2), (1, 3), (4, 5), (3, 8)}  D {(1, 2), (2, 2), (4, 2), (3, 2)} |