**Warm Up Review -- Direct Variation**

1. Circle which graphs show a direct variation?

A. B. C. D. E.

|  |  |
| --- | --- |
|  x .  |  y . |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

2. Kiya earns $4 per hour at her after-school job. Create a table (label x and y), graph and write an equation to find the total money she can earn.

Equation\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. What equation describes the relationship for the table below?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  x . | 3 | 6 | 9 | 12 |
|  y | 21 | 42 | 63 | 84 |

Equation\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Mac makes $6 per hour. If ***h*** represents the number of hours he works, which equation can be used to find how much money (***m)*** he will make?

 A*. h = 6m*  B. *h = 6 + m* C. *m = 6h*  D. *mh = 6*

5. Which graph shows that a train is traveling at a constant rate of speed of 80 miles per hour?



D

C

B

A

6. Is (1, 20) a solution to the equation y = 9x + 5?\_\_\_\_\_\_\_\_\_\_\_

7. Which of the given values is a solution to the equation y = 18*x*?

**A.** (3, 24) **B.** (1, 13) **C.** (2, 36) **D.** (18, 0)

8. Find **k** if **y** = 10 when **x** = 5 k = \_\_\_\_\_\_\_\_ equation : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Find **k** if **y** = 48 when **x** = 4 k = \_\_\_\_\_\_\_\_ equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write an equation for each graph. Remember, you only need 2 values to find the 3rd.

10. x y = kx

 Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_