Name: _____

8th Grade Weekly Math Review Week 20

Solve each problem. Show your work.

1. $-4 + (-9) =$ _____

2. $10 \times (-3) =$ _____

3. $3(x + 2) - 7 = 2 \quad x =$ _____

4. Solve the system: $4x + y = 14$ and $3x - y = 14$

   Solution: _____

5. Estimate $\sqrt{58}$ to the nearest tenth.

   Answer: _____

6. $(-4, -6)$ and $(-6, -10) \quad y = =$ _____

7. $y^2 \cdot y^5 =$ _____

8. Solve the system: $y = 2x - 8$ and $2x - y = 8$

   Solution: _____

9. Is this relation a function? {(5, 6), (2, 9), (7, 7), (−2, 6)}

   Answer: _____

10. Linear or nonlinear? $y = 3x + 2$

    Answer: _____

11. Linear or nonlinear? x: 0, 1, 2, 3 and y: 1, 3, 5, 7

    Answer: _____

12. $g(x) = 3x^2 + 1$. $g(-4) =$ _____

Name: **ANSWER KEY**

8th Grade Weekly Math Review Week 20

Solve each problem. Show your work.

1. $-4 + (-9) =$ −13

2. $10 \times (-3) =$ −30

3. $3(x + 2) - 7 = 2 \quad x =$ 1

4. Solve the system: $4x + y = 14$ and $3x - y = 14$

   Solution: (4, −2)

5. Estimate $\sqrt{58}$ to the nearest tenth.

   Answer: 7.6

6. (−4, −6) and (−6, −10) $\quad y = =$ 2x + 2

7. $y^2 \cdot y^5 =$ y^7

8. Solve the system: $y = 2x - 8$ and $2x - y = 8$

   Solution: (3, −2)

9. Is this relation a function? {(5, 6), (2, 9), (7, 7), (−2, 6)}

   Answer: yes

10. Linear or nonlinear? $y = 3x + 2$

    Answer: linear

11. Linear or nonlinear? x: 0, 1, 2, 3 and y: 1, 3, 5, 7

    Answer: linear

12. $g(x) = 3x^2 + 1$. $g(-4) =$ 49