Name: _____

8th Grade Weekly Math Review Week 18

Solve each problem. Show your work.

1. $5x + 3 = 13$ x = _____

2. $2x - 15 = -33$ x = _____

3. Solve the system: $y = x - 8$ and $4x + 3y = 11$

Solution: _____

4. 2.9×10^{-4} = _____

5. Solve the system: $2x + 4y = -2$ and $4x - 4y = 8$

Solution: _____

6. $\sqrt{36}$ = _____

7. Solve the system: $y = x + 1$ and $4x + 2y = 2$

Solution: _____

8. Solve the system: $4x + 4y = 16$ and $3x - 4y = -30$

Solution: _____

9. Linear or nonlinear? x: 0, 1, 2, 3 and y: 1, 2, 4, 8

Answer: _____

10. Is this relation a function? {(−5, −1), (4, −1), (−2, 2), (1, −2)}

Answer: _____

11. Is this relation a function? {(−1, 2), (3, 3), (6, −2), (6, −2)}

Answer: _____

12. Linear or nonlinear? $y = 4/x$

Answer: _____

Name: **ANSWER KEY**

8th Grade Weekly Math Review Week 18

Solve each problem. Show your work.

1. $5x + 3 = 13$ x = 2

2. $2x - 15 = -33$ x = −9

3. Solve the system: y = x − 8 and 4x + 3y = 11

   Solution: (5, −3)

4. 2.9×10^{-4} = 0.00029

5. Solve the system: 2x + 4y = −2 and 4x − 4y = 8

   Solution: (1, −1)

6. $\sqrt{36}$ = 6

7. Solve the system: y = x + 1 and 4x + 2y = 2

   Solution: (0, 1)

8. Solve the system: 4x + 4y = 16 and 3x − 4y = −30

   Solution: (−2, 6)

9. Linear or nonlinear? x: 0, 1, 2, 3 and y: 1, 2, 4, 8

   Answer: nonlinear

10. Is this relation a function? {(−5, −1), (4, −1), (−2, 2), (1, −2)}

    Answer: yes

11. Is this relation a function? {(−1, 2), (3, 3), (6, −2), (6, −2)}

    Answer: no (an x repeats)

12. Linear or nonlinear? y = 4/x

    Answer: nonlinear