Algebra Review #6 SHOW HOW YOU SOLVED EACH PROBLEM

1.

The number $43\frac{1}{3}$ can be classified as which type of number?

- A. Integer
- C. Real number D. Whole number

B. Irrational number

2. Solve the equation for x:

$$\frac{2}{3}(x+2) = \frac{4}{3}$$

3. Simplify by using the distributive property and combining like terms:

-(4x + 9) - 3	5 - 4(x - 6) + x
7(x+11) + 9(x+5)	$\frac{1}{2}(2x+4y)$

4. Simplify using order of operations: If x = -2, y = -3

$$\frac{x^2 + 6x - 7}{y^3 + 22}$$

5. Solve the equation:

$$12 + 5v = 2v - 9$$

- A. -1 B. -7
- C. 1
- **D.** 7

6. Which of the following equations is a correct example of the distributive property?

A.
$$(4 + x^2) + z = 4 + (x^2 + z)$$

B. $(7y^2) \cdot 1 = 7y^2$
C. $6p^3 + 9 = 3(2p^3 + 9)$
D. $3(2a + 1) = 6a + 3$
E. $9y^5 + 0 = 9y^5$

7. Simplify the radical expression:	9. Simplify the radical expression:
3√2720	$\sqrt{512t^4s^3}$
8. Simplify the radical expression: $\sqrt{686}$	10. Simplify the radical expression: $\sqrt[3]{135m^7n}$