**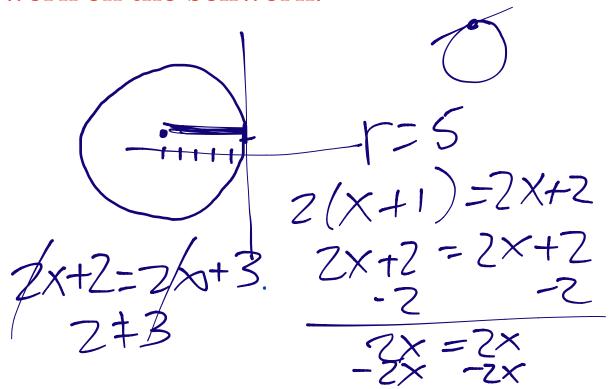1.** A circle with center $(-5, 1)$ is tangent to the *y*-axis in the standard $(x, y)$ coordinate plane. What is the radius of this circle?

    **A.** 5      **B.** 1      **C.** $\sqrt{6}$      **D.** 4      **E.** 6

**2.** Which of the following completely describes the solution set for $2(x+1) = 2x + 2$?

    **A.** $x = -1$                      **B.** $x = 1$

    **C.** All real numbers are solutions for *x*.      **D.** $x = 2$

    **E.** There are no solutions for *x*.

**3.** For all $x > 0$, $\dfrac{2x^2 + 3x + 1}{x + 1}$ simplifies to:

    **A.** $x + 1$      **B.** $2(x+1)$      **C.** $2x + 1$      **D.** $(2x+1)(x+1)$

    **E.** $2x^2 + 2x$

Please get with your homework groups. Go over bellwork and homework. While you are waiting for your group to arrive, work on the bellwork.

p. 15

$$\overline{0=0}$$

Additive inverse (opposite)

(10) $-8, 8$

$1.5 \quad \frac{3}{2} \quad -1.5$

(12) $-\frac{1}{8}$

$\dfrac{1}{1.5} \quad \dfrac{2}{3}$

Multiplicative inverse (reciprocal)

(15) $3(5c + 4d) + 6(d - 2c)$

$15c + 12d + 6d - 12c = 0$

$\qquad\qquad\qquad +12c$

$\boxed{3c + 18d}$

(51) $3(15x - 9y) + 5(4y - x)$

$45x - 27y + 20y - 5x$

$40x - 7y$

$40x + -7y$

**59** Every whole # is an integer.

 True

W: 0, 1, 2, 3, 4, . . . . . .

ℤ: ..., -3, -2, -1, 0, 1, 2, 3. . . . . .

**61** Every ℝ is irrational.

FALSE

ex. 2

ℝ ⊇ whole

irr.

π, √3

rational = 2/3

integers

whole = 3

natural = 1, 2, 3, 4, . . . . .

$$\sqrt{-4} \implies \sqrt{-1}''''$$

(55) $4(0.2m - 0.3n) - 6(0.7m - 0.5n)$

$0.8m - 1.2n - (4.2m - 3n)$

$0.8m - 1.2n - 4.2m + 3n$

$$\boxed{-3.4m + 1.8n}$$

(56)

$7(0.2p + 0.3g) + 5(0.6p - g)$

$1.4p + 2.1g + 3p - 5g$

$4.4p - 2.9g$

OR

$$-2.9g + 4.4p$$

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$$2x^2 + 3x + \boxed{1}$$

$$(2x + 1) \quad (x + 1)$$

$$2x \cdot x = 2x^2$$

$$\frac{(2x+1)(x+1)}{x+1}$$

$$\boxed{2x+1} \quad C$$

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41) $-4x - 7(4x - 2)$

43) $-10(1 - 3b) - 3(9b - 2)$

$-10 + 30b - 27b + 6$ ★

$3b - 4$   OR

$-4 + 3b$