

MAT0028 ~ Lesson 11

Work the following examples as you listen to the recorded lecture.

Solving Linear Equations

Steps for solving equations:
1. Simplify each side of the equation by distributing multiplication and/or combining like terms.
2. Get the variable terms to the same side by adding or subtracting the smaller term.
3. Get rid of any number that is added or subtracted on the side with the variable by performing the opposite operation .
4. Divide both sides by the coefficient of the variable.

Solve:

Example 1: $-4y + 10 = -2(3y + 1)$

Example 2: $15x - 8 = 10 + 9x$

Example 3: $8 - 2(a + 1) = 9 + a$

Example 4: $-2y - 10 = 5y + 18$

Example 5: $\frac{2}{3}x + \frac{4}{3} = -\frac{2}{3}$

Example 6: $\frac{2(x+1)}{4} = 3x - 2$

Example 7: $4(3x + 2) = 12x + 8$

Example 8: $3x - 7 = 3(x + 1)$