Algebra WON: Practical Algebra I skills
Prof. Scott Beaver

Problem Set #9
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1. Solve for unknown x using the quadratic formula.

$$ax^2 + bx + c = 0 \qquad x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$(x+1)(x+2) = 0$

$x = -1 \text{ or } x = -2$

$a = 1 \quad b = 3 \quad c = 2$

$1x^2 + 3x + 2 = 0$

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$= \frac{-3 \pm \sqrt{3^2 - 4(1)(2)}}{2(1)}$

$= \frac{-3 \pm \sqrt{9-8}}{2}$

$= \frac{-3 \pm \sqrt{1}}{2} = \frac{-3 \pm 1}{2}$

$x = \frac{-3+1}{2} = \frac{-2}{2} = -1 \quad \text{or} \quad x = \frac{-3-1}{2} = \frac{-4}{2} = -2$

$1x^2 - x - 2 = 0 \qquad x = -1 \text{ or } x = -2$

$(-1)^2 - 4(1)(-2) = 1 + 8 = 9, \quad \sqrt{9} = 3$

$x = \frac{-(-1) \pm 3}{2(1)} = \frac{1 \pm 3}{2}$

$x = \frac{1+3}{2} = 2 \quad \text{or} \quad x = \frac{1-3}{2} = -1$

$(x-2)(x+1) = 0$

$a = 1 \quad b = -3 \quad c = 2$

$1x^2 - 3x + 2 = 0$

$b^2 - 4ac = -3^2 - 4(1)$
$= (-3)^2 - 4(1)(2)$
$= 9 - 8 = 1, \quad \sqrt{1} = 1$

$x = \frac{-(-3) \pm 1}{2(1)} = \frac{3 \pm 1}{2}$

$x = \frac{3+1}{2} = 2 \quad \text{or} \quad x = \frac{3-1}{2} = 1$

$(x-2)(x-1) = 0$

$x = 2 \text{ or } x = 1$

$10x^2 + 10x - 20 = 0$

$10^2 - 4(10)(-20) = 100 + 800 = 900$

$\sqrt{900} = 30$

$x = \frac{-(10) \pm 30}{2(10)} = \frac{-10 \pm 30}{30}$

$x = \frac{-10+30}{20} = \frac{20}{20} = 1 \quad \text{or}$

$x = \frac{-10-30}{20} = \frac{-40}{20} = -2$

Algebra Quiz 1 Form K Answers

Marvin Marcus,Henryk Minc

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