

<p>7)</p> $\frac{x^2 - 9 = 4x}{-4x \quad -4x}$ $x^2 - 4x - 9 = 0$ <p>a: 1 $b^2 - 4ac$ b: -4 $(-4)^2 - 4(1)(-9)$ c: -9 $\sqrt{52} = \pm 2\sqrt{13}$</p> $x = \frac{4 \pm 2\sqrt{13}}{2} = 2 \pm \sqrt{13}$	<p>8)</p> $\frac{-2x^2 + 17 = 8x - 1}{-8x + 1 \quad -8x + 1}$ $-2x^2 - 8x + 18 = 0$ <p>a: -2 $b^2 - 4ac$ b: -8 $(-8)^2 - 4(-2)(18)$ c: 18 $\sqrt{208} = \pm 4\sqrt{13}$</p> $x = \frac{8 \pm 4\sqrt{13}}{-4} = -2 \pm \sqrt{13}$
<p>9)</p> $\frac{-8x^2 + 7 = 4}{-4 \quad -4}$ $-8x^2 + 3 = 0$ <p>a: -8 $b^2 - 4ac$ b: 0 $(0)^2 - 4(-8)(3)$ c: 3 $\sqrt{96} = \pm 4\sqrt{6}$</p> $x = \frac{0 \pm 4\sqrt{6}}{-16} \quad x = \frac{4\sqrt{6}}{-16} = \frac{\sqrt{6}}{-4}$ $x = \frac{-4\sqrt{6}}{-16} = \frac{\sqrt{6}}{4}$	<p>10)</p> $\frac{-x^2 + 10x = 8}{-8 \quad -8}$ $-x^2 + 10x - 8 = 0$ <p>a: -1 $b^2 - 4ac$ b: 10 $(10)^2 - 4(-1)(-8)$ c: -8 $\sqrt{68} = \pm 2\sqrt{17}$</p> $x = \frac{-10 \pm 2\sqrt{17}}{-2} = 5 \pm \sqrt{17}$
<p>11)</p> $-3x^2 + 8x - 7 = 0$ <p>a: -3 $b^2 - 4ac$ b: 8 $(8)^2 - 4(-3)(-7)$ c: -7 $\sqrt{20} = \pm i\sqrt{20} = \pm 2i\sqrt{5}$</p> <p>Look for GCF</p> $x = \frac{-8 \pm 2i\sqrt{5}}{-6} = \frac{-4 \pm i\sqrt{5}}{-3}$	<p>12)</p> $\frac{5x^2 + 9 = 4x + 5}{-4x - 5 \quad -4x - 5}$ $5x^2 - 4x + 4 = 0$ <p>a: 5 $b^2 - 4ac$ b: -4 $(-4)^2 - 4(5)(4)$ c: 4 $\sqrt{-64} = \pm i\sqrt{64} = \pm 8i$</p> $x = \frac{4 \pm 8i}{20} = \frac{1 \pm 2i}{5}$