

April 20, 2015  
 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

11.2  
 #2  $5\left(\frac{2}{5}y^2 + \frac{1}{5}y - \frac{3}{5} = 0\right)$

$2y^2 + y - 3 = 0$   
 $a=2, b=1, c=-3$   
 $b^2 - 4ac = (1)^2 - 4(2)(-3)$   
 $= 1 - 8(-3)$   
 $= 1 + 24$   
 $= 25$   
 $25 > 0 \Rightarrow 2 \text{ real solutions}$

$x = \frac{-(-1) \pm \sqrt{25}}{2(2)}$   
 $= \frac{-1 \pm 5}{4}$

①  $x = \frac{-1+5}{4} = \frac{4}{4} = 1$   
 ②  $x = \frac{-1-5}{4} = \frac{-6}{4} = -\frac{3}{2}$

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#1)  $x^2 + 8x + 15 = 0$   
 $a=1, b=8, c=15$   
 $b^2 - 4ac = (8)^2 - 4(1)(15)$   
 $= 64 - 4(15)$   
 $= 64 - 60$   
 $= 4 \Rightarrow 2 \text{ real solutions}$

$x = \frac{-(-8) \pm \sqrt{(8)^2 - 4(1)(15)}}{2(1)}$   
 $= \frac{-8 \pm \sqrt{64 - 60}}{2}$   
 $= \frac{-8 \pm \sqrt{4}}{2}$   
 $= \frac{-8 \pm 2}{2}$

①  $x = \frac{-8+2}{2} = \frac{-6}{2} = -3$   
 ②  $x = \frac{-8-2}{2} = \frac{-10}{2} = -5$

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#14)  $2\left(\frac{1}{2}x^2 = x - \frac{1}{2}\right)$   
 $x^2 = 2x - 1$   
 $x^2 - 2x + 1 = 0$   
 $a=1, b=-2, c=1$

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Solve. *By any means!*  
 $(\sqrt{16x})^2 = (x+3)^2 \quad F O I L$   
 $16x = x^2 + 6x + 9$   
 $0 = x^2 - 10x + 9$   
 $(x-9)(x-1) = 0 \quad b^2 - 4ac = (-10)^2 - 4(1)(9)$   
 $x=9, x=1 \quad = 100 - 36$   
 $= 64$

$x = \frac{-(-10) \pm \sqrt{(-10)^2 - 4(1)(9)}}{2(1)}$   
 $= \frac{10 \pm \sqrt{64}}{2}$   
 $= \frac{10 \pm 8}{2}$

①  $x = \frac{10+8}{2} = \frac{18}{2} = 9$   
 ②  $x = \frac{10-8}{2} = \frac{2}{2} = 1$

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$x - \sqrt{17-4x} - 3 = 0$

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