2. $2x+y=7$ $y=-2x+7$

(3, 1) $3x-4y=5$

$3x-4(-2x+7)=5$

$3x+8x-28=5$

$11x=33$

$x=3$

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$2x+y=7$ $3(-1)-4(9)=5$

$2(-1)+9=7$ $-3-36=5$

$(-1, 9)$ $-2+9=7$

x y $7=7$

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(4) $9x^2+31x\leq -12$

$+12 \quad +12$

$+9x^2+31x+12\leq 0$

$x=-3 \quad x=-.44$

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$9x^2+31x+12\leq 0$

$[-3, -.44]$

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$+4x^2+4x+1>0$ $> +$

$x= \quad x=$

$(-\infty, -.5) \cup (-.5, \infty)$

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(7) $5-2x^2\geq -3x$

$+3x \quad +3x$

$2x^2+3x+5\geq 0$

$[-1, 2.5]$

$\geq +$

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(13) $x^2 - 7x + 15$ $a=1$ $b=-7$ $c=15$

$$\frac{7 \pm \sqrt{(-7)^2 - 4(1)(15)}}{2(1)}$$

$$\frac{7 \pm \sqrt{-11}}{2}$$

$$\frac{7 \pm i\sqrt{11}}{2}$$

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(14) $3m^2 - 2m + 5 = 4$

$-4 \quad -4$

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

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

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

$$x = \frac{2 \pm i\sqrt{8}}{6}$$

$8 = 4 \cdot 2$, $4 = 2 \cdot 2$

$$x = \frac{2 \pm 2i\sqrt{2}}{6}$$

$$x = \frac{1 \pm i\sqrt{2}}{3}$$

$x = \frac{1+i\sqrt{2}}{3}$ $x = \frac{1-i\sqrt{2}}{3}$

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(15) $q^2 - 14 = 2$

$+14 \quad +14$

$\sqrt{q^2} = \sqrt{16}$

$q = 4$ $q = -4$

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Finish w.s. 6.3

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