

4. Solve: $ 2x + 3 \ge 1$ (∞ , $] \cup [,\infty)$ Write your solution in interval notation. 4. ($-\infty$, $2 \cup [-1,\infty)$
$2x+3 \leq -1$ $2x+3 \geq 1$ -3 - 3
-3 -3 -3 -3 $2x^2-2$ $2x^2-2$
$x = -\frac{1}{2}$ $x = -1$ $x = -1$
5. Solve: $6x^2 - 4x + 5 = 0$ $-b \pm b^2 - 4x4 \pm (-4)^2 - 4(6)5$ 5 - 4x + 5 = 0 5 - 4x + 5 = 0
29 2(6) 104 = 4726
4 ± 16-120 2 126
2 -25 = -1 25 +1 1 1 1 1 1 1 1
$\frac{1}{12} = \frac{1}{101} = \frac{1}{12} = \frac{1}{12}$
FSC FOIL 2±1262
6
6. Write the complex number $(7 + 4i)(4+3i)$ 6 6
$\alpha + bi$ $28 + 21i + 16i + 12i^{2}$ $12i^{2}$ $i^{2} = -1$
$\frac{12}{12} - (3i)^2$ 12(-1) -12
28+37:-12
$16 - 9i^{2}$
16+37i
169
$\frac{16+37i}{25} = \frac{16}{25} + \frac{37i}{25}$
25 25 47

7. Find the equation of a line that contains
$$(3, 4)$$

and has a slope of 2.
Write the equation in point-slope form.
 $y' - y_1 = m(x - x_1)$
 $y - 4 = x(x - 3)$
 $y - 7$
 $y - 7$

