

19 3, -3, -6
 21 1, -5, 6
 23 3, -24, 45
 25 1, 0, - $\frac{1}{4}$
 27 $\frac{3}{2}$, 2, - $\frac{3}{2}$
 28 25
 31 1
 34 24

37 $\frac{2}{1}$
 40 $\frac{1}{4}$, 3
 42 -1, - $\frac{1}{2}$
 48 $\frac{1}{2}$, 1
 49 -3, 5
 53 -1, - $\frac{2}{3}$
 55 -1, 3

536-537

**You need
a Calculator
Today**

$$\textcircled{31} \quad 5x^2 + 5x + \frac{1}{5} = 0$$

$$a = 5$$

$$b = 5$$

$$c = \frac{1}{5}$$

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

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

$$= \frac{-5 \pm \sqrt{25 - 4}}{10} = \frac{-5 \pm \sqrt{21}}{10}$$

$$x = \frac{-5 + \sqrt{21}}{10}$$

$$\text{or } x = \frac{-5 - \sqrt{21}}{10}$$

$$\textcircled{53} \quad 5x - 2x^2 + 15 = 8$$

$-8 \quad -8$

$$-2x^2 + 5x + 7 = 0$$

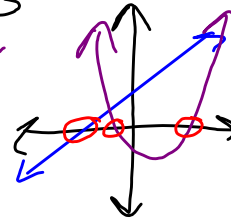
9.6 cont.

March 30, 2007

Solve: $y = x^2 + 4x - 5$

Let $y=0$ to solve for 'x'

$$0 = x^2 + 4x - 5$$



$$a = 1$$

$$b = 4$$

$$c = -5$$

Q.F.

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

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

$$= \frac{-4 \pm \sqrt{16 + 20}}{2} = \frac{-4 \pm \sqrt{36}}{2} = \frac{-4 \pm 6}{2}$$

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

$$= \frac{2}{2}$$

$$x = 1$$

or

$$x = \frac{-4 - 6}{2}$$

$$= \frac{-10}{2}$$

$$x = -5$$

Solve: $2x^2 - 3x = 8$

$$\begin{array}{r} - 8 - 8 \\ \hline 2x^2 - 3x - 8 = 0 \end{array}$$

$a = 2$
 $b = -3$
 $c = -8$

Q.F.

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

$$x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(2)(-8)}}{2(2)}$$

$$= \frac{3 \pm \sqrt{9 + 64}}{4} = \frac{3 \pm \sqrt{73}}{4}$$

(73) 8.54403745

0 < 5 so...

$$x \approx \frac{3 + 8.5440}{4} \text{ or } x \approx \frac{3 - 8.5440}{4}$$

$$x \approx 2.886$$

$$x \approx 2.89 \text{ or } x \approx -1.39$$

O.T.L.

① Pg 537: 40-66 (ALL)

& Pg. 539: 85-101 ALL

② Chapter 9 Test Tuesday!

No
Calcs

{ Ch. 9. Quiz.
3 Q.F. Problems (Nice)

w/
Calc.

{ $\frac{1}{2}$ Sheet w/ 1 Q.F. Problem
Not Nice