FP Test Corrections

$$20 \frac{(n^2+4)(n+2)(n-2)}{(n-2)^2} \times \frac{(2+n)(2-n)}{(n)(n^2+4)} \times \frac{(k^2+4)}{(n-2)}$$

$$=\frac{(\chi+2)(2+\chi)(\chi^2+4)}{(\chi-2)(\chi)(\chi-2)}$$

FP Test Corrections

 $\frac{20)((3\alpha-2)(\alpha^2+13\alpha+36))-((1)(\alpha^2-5\alpha-36))}{(\alpha^2+13\alpha+36)(\alpha^2-5\alpha-36)}$

(3(a3+12a2+29a-12))-((4a+5)(a+4)2(a+9)(a-9)) (a+4)2(a+9)(a-9)(a2-81

= 4 95 + 37 4 - 223 03 - 2953 02 - 8511 0 - 6494 2(0+4)(0+9)2(0-9)2

 $=\frac{-9^2+39-29}{9^3+49-819-324}$

 $=\frac{-a^2+3a-29}{(a+4)(a-9)(a+9)}$

30) 149 = 7

(1)(60)(V)= 84 N

64x = x = 84

: K = 84

36) 1490 = 70

56a = 2 = 7a = 4

FP Test (orrections
5a)
$$a^2 - \frac{6a}{15} - \frac{21}{15} = 0$$

 $a^2 - \frac{6a}{15} = \frac{21}{15} = \frac{21}{15}$
 $a^2 - \frac{6a}{15} + (\frac{6}{15} \div 2)^2 = \frac{21}{15} + (\frac{6}{15} \div 2)^2$
 $(a - \frac{6}{15})^2 = \frac{36}{25}$
 $a - \frac{6}{15} = \frac{6}{5}$

$$\alpha = \frac{6}{15} \pm \frac{6}{5}$$

$$b^{2} + 2b + (2 \div 2)^{2} = 21 + (2 \div 2)^{2}$$

$$(b+1)^{2} = 22$$

$$b+1 = \sqrt{22}$$

5e)
$$2c - 5 - \frac{3}{c} = \frac{7}{4c}$$

 $8c^2 - 12c - 12 = 7$
 $8c^4 - 12c - 19 = 0$

$$c^4 - \frac{12c}{3} - \frac{19}{8} = 0$$

$$c^2 - \frac{3c}{3} = \frac{19}{6} + (-\frac{3}{6} - \frac{2}{2})^2 = \frac{19}{4} + (-\frac{3}{6} - \frac{2}{2})^2$$

$$(c - \frac{3}{3})^2 = \frac{5617}{16}$$

$$C = \frac{2}{8} \pm \frac{\sqrt{617}}{16}$$
 $C = \frac{6+\sqrt{617}}{16}$, $\frac{6-\sqrt{617}}{16}$

$$\gamma = \frac{-(4) \pm \sqrt{(-4)^4 - 4(1)(5.625)}}{2(1)}$$

$$\chi = \frac{4 \pm \sqrt{16 - 22.5}}{2}$$

$$\chi = \frac{4 \pm \sqrt{-6.5}}{2}$$

$$\gamma = \frac{9 + \sqrt{126}}{4}$$
or
$$\gamma = \frac{9 + \sqrt{26}}{4}$$

$$\frac{5 \pm \sqrt{(-5)^2 - 4(5)(-6)}}{2(5)}$$

$$= \frac{5 \pm \sqrt{25 + 72}}{6}$$

$$= \frac{5 \pm \sqrt{91}}{6}$$
or $\frac{5 - \sqrt{97}}{6}$

$$= 2.47 \text{ or } -0.91$$

$$\frac{84 \pm \sqrt{(-44)^2 - 4(36)(-41)}}{2(36)}$$

$$= \frac{84 \pm \sqrt{1086 + 8904}}{72}$$

$$= \frac{84 \pm 36\sqrt{10}}{12}$$

$$= \frac{84 + 36\sqrt{10}}{72} \quad \text{OR} \quad \frac{64 - 36\sqrt{10}}{72}$$

$$= \frac{1 + 3\sqrt{10}}{6} \quad \text{OR} \quad \frac{1 - 3\sqrt{10}}{6}$$

$$= 2.75 \quad \text{OR} \quad -0.41$$

7)
$$a \pi^2 + b \pi + c = 0$$

$$\pi^2 + \frac{b}{a} \pi + \frac{c}{a} = 0$$

$$\pi^2 + \frac{b}{a} \pi + \frac{c}{a} = 0$$

$$\pi^2 + \frac{b}{a} \pi = -\frac{c}{a}$$

$$\pi^2 + \frac{b}{a} \pi + \left(\frac{b}{2a}\right)^2 = -\frac{c}{a} + \left(\frac{b}{2a}\right)^2$$

$$\left(\pi + \frac{b}{2a}\right)^2 = \pm$$