$$= =1.5$$
cm $=10$ pt

I have not violated the Honor Code in any way with regard to this work.

$$\begin{array}{l} \mbox{Math} \mbox{105-Test I Feb. 1, 1994} = 2 \\ \mbox{The domain of } f(x) = \frac{x}{(x^2-1)\sqrt{x-3}} \mbox{ is } \\ x > 3 \ x > 0 \ x \neq 1 \ x \neq 3 \ x \neq -1, \ x \neq 1 \ x < 3, \ x \neq -1, \ x \neq 1 \ x \geq 0 \\ \mbox{The equation for the line through the point (2, 3) and parallel to $x-y=1$ is $x-y=-1$ \ x+y=-5$ \ y=x+4$ \ y=3$x+2$ \ y=3$x-2$ \ 1 \ f(x) = x^2+1 \ add g(x) = x^{-2} \ 3, then $g(f(x)) = x^2+1+\sqrt{x-3}$ \ g(f(x)) = $x^2+1+\sqrt{x-3}$ \ g(f(x)) = $x^2+1+\sqrt{x-3}$ \ g(f(x)) = x^2+x-2 \ The expression $x^2-7x-18$ \ can be factorized as $(x-9)(x+2)$ \ (x+9)(x-2)$ \ (x-9)(x-2)$ \ (x-9)(x-2)$ \ (x-9)(x-2)$ \ (x-9)(x-2)$ \ (x-3)(x+6)$ \ (x+3)(x-6)$ \ (x+3)(x+6) \ If \ f(x) = $x^3+x^3-x^3-x^4-x^4$ \ add y = -3 \ x+4$ meet at the point(s) \ 10 \ 12-2 \ \frac{3}{4} \ does not exist \ If \ f(x) = $x^3-\frac{3}{2}x^2-\frac{3}{2}x^2-\frac{3}{4}x^2_5$ \ -3$ \ \frac{3}{4}x^2$ \ 10 \ 12-2 \ \frac{3}{4} \ does not exist \ If \ f(x) = x^3+x^4 \ y=-3$ \ x+4$ \ meet at the point(s) \ (0,4) \ add (-3,13)$ \ (-1,5)$ and \ (1,5)$ \ (-\frac{4}{3},0$)$ and \ (-2,0)$ \ (3,1)$ there are no points of intersection \ Find the equation of the tangent line to the graph $y=2$ \ x/x + 5$ at a point whose y coordinate is $y=7$. \ $y=x+6$ \ y=\frac{5}{2}x+\frac{9}{2}$ \ y=\frac{5}{2}x+7$ \ y=-\frac{5}{2}x+\frac{19}{2} \ \ The expression \ [(2x^2+2x+7)^{-2}]^{1/8} \ \sqrt{2x^2+2x+7}$ \ (2x+\sqrt{7})^{1/2} \ \ \frac{1}{(x^2+2x+7]^{1/4}} \ \frac{1}{(x^2+2x+7]^{1/4}} \ \sqrt{2x^2+2x+7}$ \ (2x+\sqrt{7})^{1/2} \ \ \frac{1}{(x^2+2x+7]^{1/4}} \ \frac{1}{(x^2+2x+7]^{1/4}} \ \sqrt{2x^2+2x+7}$ \ (2x+\sqrt{7})^{1/2} \ \ \frac{1}{(x^2+2x+4)^{1/4}} \ \frac{1}{(x^2+2x+7]^{1/4}} \ \frac{1}{(x^2+2x+7)^{1/4}} \$$

Which equation of the following is perpendicular to the equation x + 2y = 0, and passes through the

point (1,7)? $y = 2x + 5 \ x - 2y = -13 \ y = -\frac{1}{2}x + \frac{15}{2} \ y = \frac{1}{2}x + \frac{13}{2} \ y = -2x + 9$ An equation for the tangent line to the curve $y = x^3 - 5x + 3$ at the point (2,1) is $y = 7x - 13 \ y = 2x - 3 \ y = 3x - 7 \ y = \frac{x}{3} + 3 \ y = 5x - 3$

The y-intercept of the line 4x + 5y + 6 = 0 is $\begin{pmatrix} -\frac{3}{2}, 0 \end{pmatrix}$ $\begin{pmatrix} (\frac{3}{2}, 0) \\ (0, \frac{6}{5}) \\ (0, -\frac{6}{5}) \\ (1, 2) \end{pmatrix}$ How many real solutions does the equation $x^2 - 4x + 5 = 0$ have?

 $0\ 1\ 2\ 3\ 4$