## Math 160

July 9, 2002
This quiz is worth 10 points. Show all work for credit.

1. Define $\odot$ to be $<a, b\rangle \odot<c, d\rangle=a^{2} c-\frac{b}{d}$.
(a) Evaluate $<-3,49>\odot<8,7>$.
(b) Solve for $x$ : $<10,12>\odot<x, 6>=1898$.
2. Of the four ways to solve equations, choose the BEST method, (do not solve):
(a) $3 x^{3}+17=\sin (25)$
(b) $x e^{x}=0$
(c) $(x+7)^{2}(x-2)+(x-6)(x+1)^{2}=0$
(d) $(x+7)^{2}(x-2)+(x-6)(x-2)^{2}=4$
3. Solve for $x$ algebraically: $(x+2)(x-1)-7.1=-1$.
4. (Bonus @2 points) Solve for $x$ algebraically: $(x+1)^{2}(x-7)+x+1=0$.
