Solving equations by factoring.

Step 1 Rearrange the equation so that everything is on one side (Written in Standard Form) and the other side = 0

Step 2 Factor completely the one side that is in Standard Form

Step 3 Find the zeros of each factor containing a variable (set each factor equal to zero and solve for the variable).

Solve each by factoring. Show the final factored form then state the solutions (zeros).

1. $48x^2 + 36x = 0$

2. $x^2 - 9x + 20 = 0$

3. $2x^2 + 6x = 20$

4. $8x^2 - 21 = 22x$

5. $24x^3 + 72x^2 + 30x = 0$

6. $45x^3 - 80x = 0$

7. $36x^2 - 49 = 0$