

Written Homework 9 - Show all work to receive credit**Factoring (Sections 5.4 - 5.5)**

Remember to always look first for a common factor and write in descending order.

1) Factor completely: $8w^2 - 98$

2) Factor completely: $2y^3 - 4y^2 - 70y$

3) Factor completely: $16x^2 + x^3 + 64x$

4) Factor completely: $10m^4 - 19m^3 - 15m^2$

5) Factor completely: $w^3 + 3w^2 - 4w - 12$

Quadratic Equations (Section 5.6)

6) Solve: $(x + 2)(x - 7) = -18$