Factoring - Perfect Square Trinomials

$a^2 + 2ab + b^2 = (a+b)(a+b)$ or $(a+b)^2$

$a^2 - 2ab + b^2 = (a-b)(a-b)$ or $(a-b)^2$

1. Factor each expression.

a) $x^2 - 10x + 25$

b) $36a^2 + 12ab + b^2$

c) $16y^2 - 40yz + 25z^2$

d) $a^2b^2 + 2abc + c^2$

e) $\frac{1}{4}m^2 - 8mn^2 + 64n^4$

f) $.09x^2 + .24xy + .16y^2$