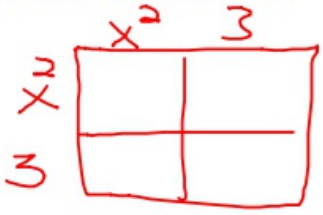
$n^2+2mn+m^2$

Warm - Up
2/7/2019

$n = x^2$
$m = 3$

Simplify by using the *"perfect square trinomial of sum"* formula



$$(x^2+3)^2$$

$(x^2)^2+2(x^2)(3)+(3)^2$

$x^{2\cdot2}+6x^2+9$

$\boxed{x^4+6x^2+9}$

3.1 - 3.3

2/12 or 2/13

Simplify

$(m \pm n)^2 = m^2 \mp 2mn + n^2$

$(5-\sqrt{2})^2$ $25-10\sqrt{2}+2$

$(2x-12)^2$ $4x^2-48x+144$

Perfect Square Trinomial of a Difference

$$(m-n)^2 = m^2 - 2mn + n^2$$

$(a-b)^2 =$

Simplify $(m-n)^2 = m^2 - 2mn + n^2$

$$(t-5)^2$$

$(\quad)^2 - 2(\quad)(5) + (5)^2$ ✗

$t^2 - 10t + 25$

Simplify

$(m_1 - n_1)^2 = m_1^2 - 2m_1n_1 + n_1^2$

$m_1 = 7m$ in the formula

$(7m_1 - 4)^2$

$(7m)^2 - 2(7m)(4) + (4)^2$

$49m^2 - 56m + 16$

Simplify

$(2k - j)^2$

$m^2 - 2mn + n^2$

$(2k-j)^2 = 2k^2 - 2(2k)(-j) + j^2$

$4k^2 - 4kj + j^2$

Homework (due Tue, 2/12)
p.81 (30- 37)