

Name: _____

1. Simplify each of the following by performing the indicated operation(s).

(a) $(a^{1/2} - b^2)(a^{1/2} + b^2)$

(b) $(1 - 2y)(1 + 2y + 4y^2)$

2. Factor the following expressions completely:

(a) $24x^3 - 54x$

(b) $2x^3 + x^2 - 6x - 3$

(c) $(a - 1)^2(a + b)^3 + (a - 1)^3(a + b)^2$