

Name: _____

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

(a) $(x^{3/2} - z)(x^{3/2} + z)$

(b) $(2 - x)(x^2 + 2x + 4)$

2. Factor the following expressions completely:

(a) $4x^3 - 100x$

(b) $4x^3 + 2x^2 - 6x - 3$

(c) $(x + y)^2(x - 3) - (x + y)(x - 3)^2$