

Pre-Calculus 11 Assignment 3 November 16, 2016

This week's assignment consists of practices to change a quadratic equation from its standard form to its vertex form.

1. Determine the value of c that makes each expression a perfect square.

(a) $x^2 + 6x + c$

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

(c) $x^2 + 14x + c$

(d) $x^2 - 2x + c$

2. Write the following functions in the vertex form and plot them.

(a) $y = x^2 + 8x$

(b) $y = x^2 - 18x - 59$

(c) $y = x^2 - 10x + 31$

(d) $y = x^2 + 32x - 120$

(e) $y = 2x^2 - 12x$

(f) $y = 10x^2 - 160x + 80$