Graphing Quadratic Functions

Use the following information to graph each function.

1. f(x) = x2 + 16x + 64

AOS = -8

Vertex = (-8,0)

Y-Intercept = 64

X-Intercept = -8

1. f(x) = 2x2 – 4x – 2

AOS = 1

Vertex = (1,-4)

Y-Intercept = -2

X-Intercept = 1 ± $\sqrt{2}$

1. f(x) = -x2 + 18x – 75

AOS = 9

Vertex = (9,6)

Y-Intercept = -75

X-Intercept = 9 ± $\sqrt{6}$

1. f(x) = -3x2 + 12x – 10

AOS = 2

Vertex = (2,2)

Y-Intercept = -10

X-Intercepts = 2 ± $\frac{\sqrt{6}}{3}$

1. f(x) = x2 - 12x + 44

AOS = 6

Vertex = (6,8)

Y-Intercept = 44

X-Intercepts = 6 ± 2i$\sqrt{2}$