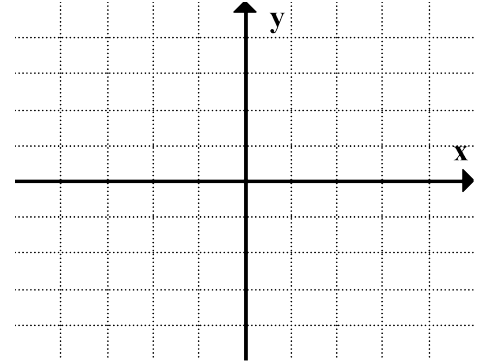# C11 - 3.2 - Graph Stand Form TOV WS (ax^2)

Graph the following equations using a table of values, on graph paper. State the Vertex. Choose your own increments.
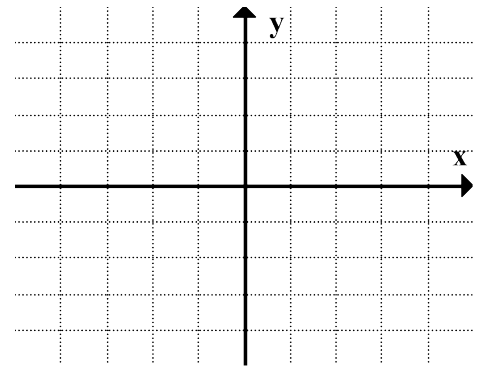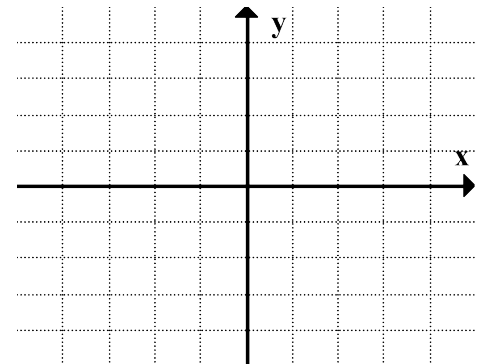
$y = 2x^2$

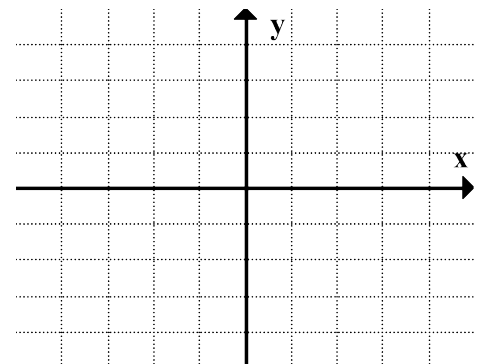| x	y

$y = 2x^2 - 2$

x	y

$y = 2x^2 + 2$

x	y

$y = 3x^2 - 3$

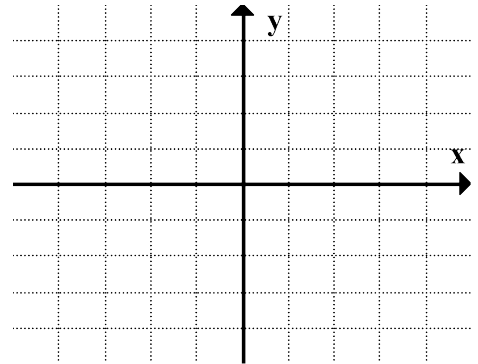| x	y

C11 - 3.2 - Graph Stand Form TOV WS (ax^2)

Graph the following equations using a table of values. State the Vertex.
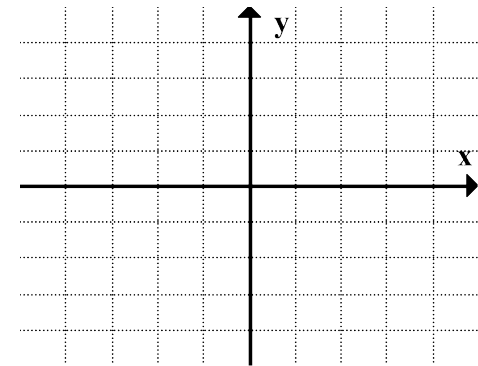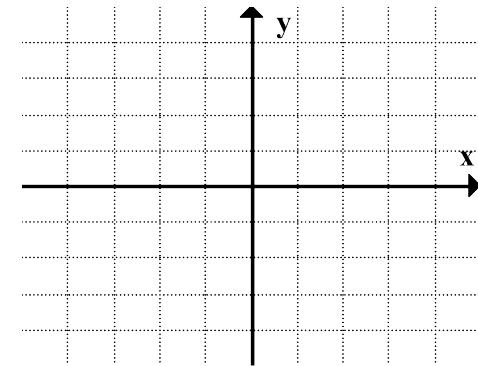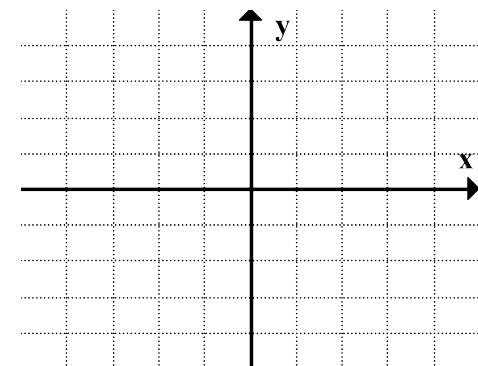
$y = x^2$

x	y

$y = 2x^2$

x	y

$y = \dfrac{1}{2}x^2$

x	y

$y = 3x^2 - 1$

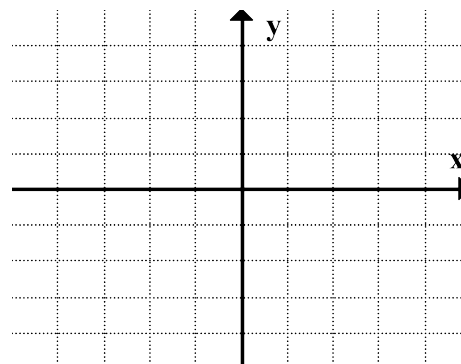| x	y

C11 - 3.2 - Graph Stand Form TOV WS $\left(\frac{1}{2}x^2\right)$

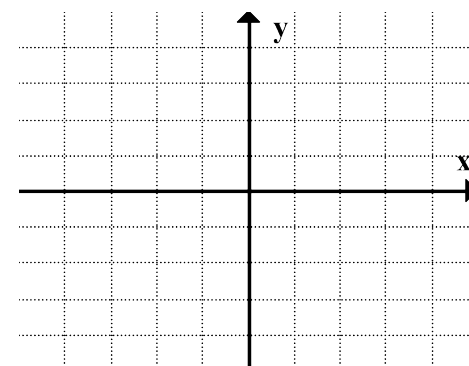**Graph the following equations using a table of values, on graph paper. State the Vertex. Choose your own increments.**
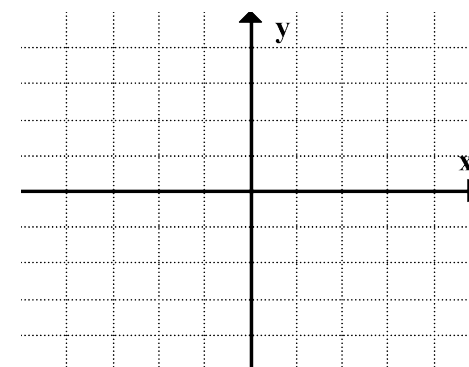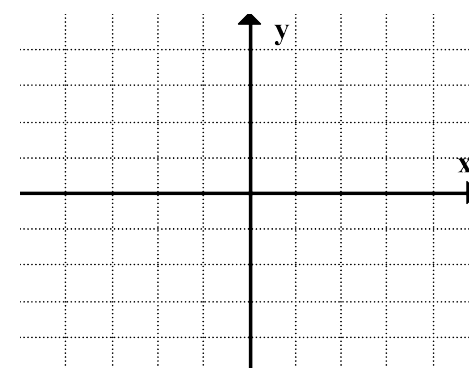
$y = \frac{1}{2}x^2$

x	y

$y = \frac{1}{2}x^2 - 4$

x	y

$y = \frac{1}{2}x^2 - 8$

x	y

$y = \frac{1}{4}x^2 + 1$

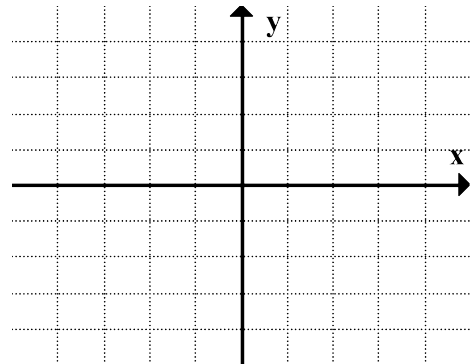| x	y

C11 - 3.2 - Graphing Vertex Form TOV WS $(a = -1)$

Graph the following equations using a table of values, on graph paper. Choose your own increments.

$y = (x - 2)^2 - 4$

x	y

$y = (x + 1)^2 - 4$

x	y

$y = (x - 2)^2 - 1$

x	y

$y = (x + 5)^2 - 1$

x	y

C11 - 3.2 - Graphing Vertex Form TOV WS $(a \neq 1)$

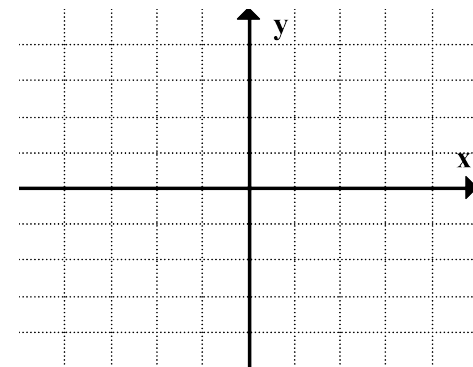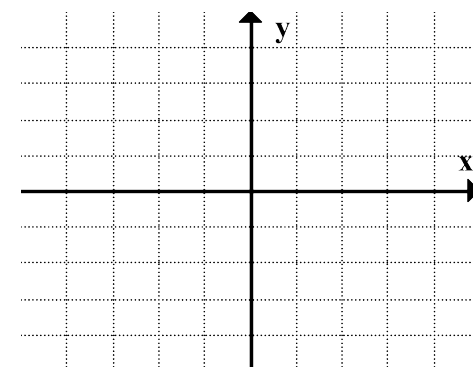**Graph the following equations using a table of values, on graph paper. Choose your own increments.**
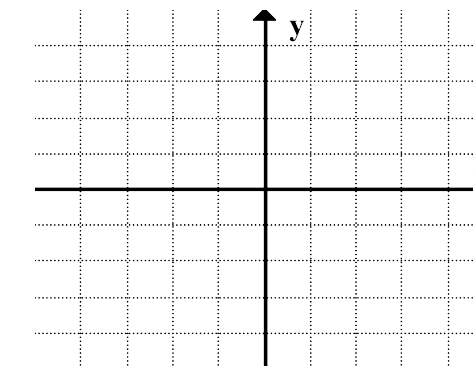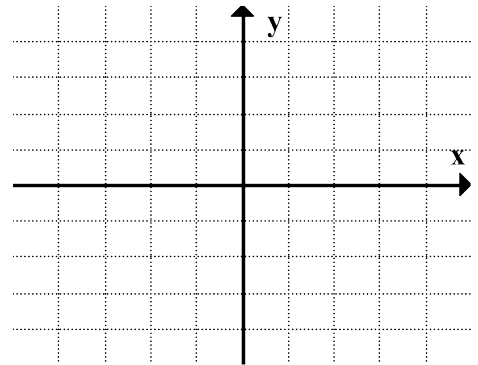
$y = 2(x+1)^2 + 1$

x	y

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

x	y

$y = \dfrac{1}{2}(x-1)^2 - 2$

x	y

$y = 3(x+1)^2 + 2$

x	y

C11 - 3.2 - Graphing Vertex Form TOV WS $(a = -\#)$

Graph the following equations using a table of values, on graph paper. Choose your own increments.
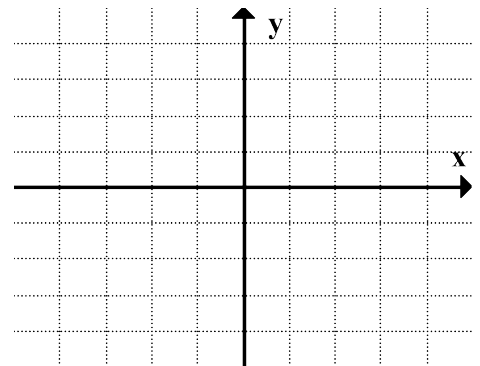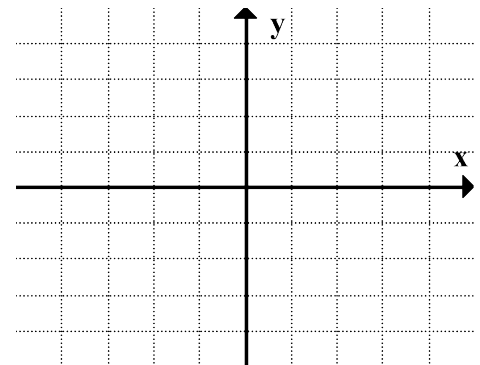
$y = -(x + 1)^2 + 1$

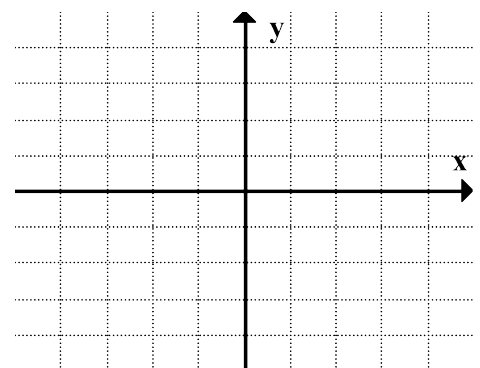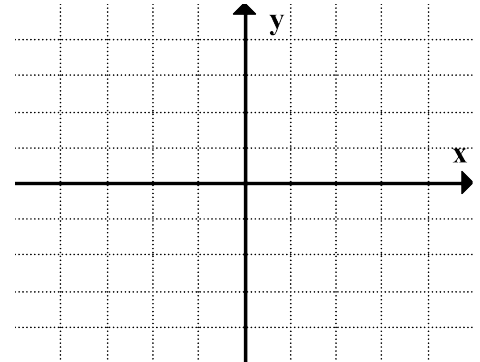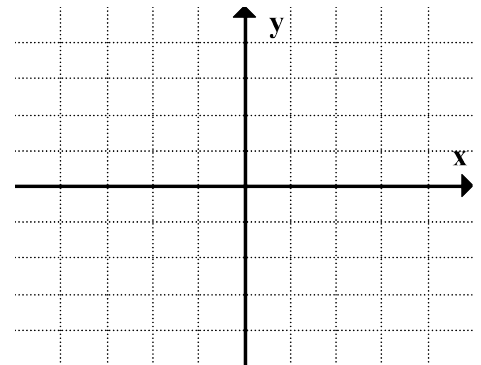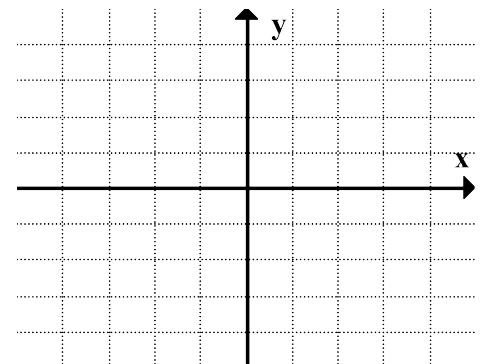| x	y

$y = -2(x + 2)^2 - 2$

x	y

$y = -\dfrac{1}{2}(x - 1)^2 + 2$

x	y

$y = -3(x + 1)^2 + 3$

x	y