Quadratics Vertex Form - Vertex to Equation

1 What function would have this vertex?

(-2, 1), opening down

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

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

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

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

2 What function would have this vertex?

(-1, -1), opening up

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

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

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

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

3 What function would have this vertex?

(-3, 1), opening down

A $y = 1.5(x + 3)^2 + 1$

B $y = -1.5(x + 3)^2 + 1$

C $y = 1.5(x + 3)^2 - 1$

D $y = -1.5(x - 3)^2 + 1$

4 What function would have this vertex?

(-4, -4), opening down

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

B $y = (x + 4)^2 + 4$

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

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

5 What function would have this vertex?

(3, -2), opening down

A $y = -1.5(x - 3)^2 + 2$

B $y = -1.5(x - 3)^2 - 2$

C $y = -1.5(x + 3)^2 - 2$

D $y = 1.5(x - 3)^2 - 2$

6 What function would have this vertex?

(4, -4), opening down

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

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

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

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

7 What function would have this vertex?

(4, -4), opening up

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

B $y = (x + 4)^2 + 4$

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

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

8 What function would have this vertex?

(4, 3), opening down

A $y = (x - 4)^2 + 3$

B $y = -1(x - 4)^2 + 3$

C $y = -1(x - 4)^2 - 3$

D $y = -1(x + 4)^2 + 3$