Find the vertex and the axis of symmetry for each function.

1. $y = x^2 + 2x + 1$ A) $(1, 4)$ and $x = 1$ B) $(-1, 0)$ and $x = -1$ C) $(-{}^1/_4, {}^9/_{16})$ and $x = -{}^1/_4$ D) $({}^1/_4, {}^{25}/_{16})$ and $x = {}^1/_4$	**6.** $y = -2x^2 - 12x$ A) $(-3, 54)$ and $x = -3$ B) $(-3, 18)$ and $x = -3$ C) $(3, -54)$ and $x = 3$ D) $(3, -18)$ and $x = 3$
2. $y = x^2 + 6x + 8$ A) $(-6, 8)$ and $x = -6$ B) $(6, 80)$ and $x = 6$ C) $(-3, -1)$ and $x = -3$ D) $(3, 35)$ and $x = 3$	**7.** $y = -2x^2 - 8x - 14$ A) $(2, -22)$ and $x = 2$ B) $(-2, -6)$ and $x = -2$ C) $(4, -78)$ and $x = 4$ D) $(-4, -14)$ and $x = -4$
3. $y = 2x^2 + 4x + 10$ A) $(-1, 8)$ and $x = -1$ B) $(1, 16)$ and $x = 1$ C) $(-2, 10)$ and $x = -2$ D) $(-{}^1/_4, 9.125)$ and $x = -{}^1/_4$	**8.** $y = -x^2 + 6x - 20$ A) $(3, 7)$ and $x = 3$ B) $(3, -11)$ and $x = 3$ C) $(6, 52)$ and $x = 6$ D) $(-6, -92)$ and $x = -6$
4. $y = 2x^2 + 16x + 2$ A) $(-4, -94)$ and $x = -4$ B) $(4, 74)$ and $x = 4$ C) $(4, 98)$ and $x = 4$ D) $(-4, -30)$ and $x = -4$	**9.** $y = -x^2 + 2x - 11$ A) $(1, -8)$ and $x = 1$ B) $(1, -10)$ and $x = 1$ C) $(2, -11)$ and $x = 2$ D) $(-2, -19)$ and $x = -2$
5. $y = x^2 + 6x + 17$ A) $(-3, -7)$ and $x = -3$ B) $(-6, -49)$ and $x = -6$ C) $(-6, 23)$ and $x = -6$ D) $(-3, 8)$ and $x = -3$	**10.** $y = 3x^2 + 6x - 12$ A) $(-2, -12)$ and $x = -2$ B) $(-2, -36)$ and $x = -2$ C) $(-1, -21)$ and $x = -1$ D) $(-1, -15)$ and $x = -1$