

b) $y = 4x^2 + 24x - 16$

$$y = 4(x^2 + 6x + 9 - 9) - 16$$

$$y = 4(x^2 + 6x + 9) - 36 - 16$$

$$y = 4(x + 3)^2 - 52$$

c) $y = -10x^2 + 20x$