tip:
$$(ax + b)^3$$

= $a^3x^3 + 3a^2bx^2 + 3ab^2x + b^3$

(1)
$$3(4x + 9)^3$$

= $3(64x^3 + 432x^2 + 972x + 729)$
= $192x^3 + 1296x^2 + 2916x + 2187$

(2)
$$-2(4x-1)^3$$

= $-2(64x^3 - 48x^2 + 12x - 1)$
= $-128x^3 + 96x^2 - 24x + 2$

(3)
$$-4(x-3)^3$$

= $-4(x^3 - 9x^2 + 27x - 27)$
= $-4x^3 + 36x^2 - 108x + 108$

(4)
$$-2(5x-1)^3$$

= $-2(125x^3 - 75x^2 + 15x - 1)$
= $-250x^3 + 150x^2 - 30x + 2$

(5)
$$-3(x+2)^3$$

= $-3(x^3+6x^2+12x+8)$
= $-3x^3-18x^2-36x-24$

(6)
$$2(x-1)^3$$

= $2(x^3 - 3x^2 + 3x - 1)$
= $2x^3 - 6x^2 + 6x - 2$

(7)
$$4(x+5)^3$$

= $4(x^3 + 15x^2 + 75x + 125)$
= $4x^3 + 60x^2 + 300x + 500$

(8)
$$2(4x-7)^3$$

= $2(64x^3 - 336x^2 + 588x - 343)$
= $128x^3 - 672x^2 + 1176x - 686$

(9)
$$4(x-2)^3$$

= $4(x^3 - 6x^2 + 12x - 8)$
= $4x^3 - 24x^2 + 48x - 32$

(10)
$$4(x+2)^3$$

= $4(x^3 + 6x^2 + 12x + 8)$
= $4x^3 + 24x^2 + 48x + 32$

(11)
$$(x+5)^3$$

= $x^3 + 15x^2 + 75x + 125$

$$(12) -4 (4x - 9)^3$$

$$= -4(64x^3 - 432x^2 + 972x - 729)$$

$$= -256x^3 + 1728x^2 - 3888x + 2916$$

(13)
$$-4(2x + 5)^3$$

= $-4(8x^3 + 60x^2 + 150x + 125)$
= $-32x^3 - 240x^2 - 600x - 500$

$$(14) - (x+9)^3$$

$$= -(x^3 + 27x^2 + 243x + 729)$$

$$= -x^3 - 27x^2 - 243x - 729$$

(15)
$$4(x + 7)^3$$

= $4(x^3 + 21x^2 + 147x + 343)$
= $4x^3 + 84x^2 + 588x + 1372$

(16)
$$3(x-2)^3$$

= $3(x^3 - 6x^2 + 12x - 8)$
= $3x^3 - 18x^2 + 36x - 24$

$$(17) - (3x - 1)^3$$

$$= -(27x^3 - 27x^2 + 9x - 1)$$

$$= -27x^3 + 27x^2 - 9x + 1$$

$$(18) -4 (5x - 6)^3$$

$$= -4(125x^3 - 450x^2 + 540x - 216)$$

$$= -500x^3 + 1800x^2 - 2160x + 864$$

(19)
$$(x+5)^3$$

= $x^3 + 15x^2 + 75x + 125$

$$(20) -3 (2x - 5)^3$$

$$= -3(8x^3 - 60x^2 + 150x - 125)$$

$$= -24x^3 + 180x^2 - 450x + 375$$