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$$f(x) = 2x^{2} - 3x + 4$$

$$f(3) = 2(3)^{2} - 3(3) + 4$$

$$= 18 - 9 + 4$$

$$= 13$$

$$f(-4) = 2(-4)^{2} - 3(-4) + 4$$

$$= 3a + 12 + 4$$

$$= 48$$

$$f(x) = 2x^{2} - 3x + 4$$

$$f(3a) = 2(3a)^{2} - 3(3a) + 4$$

$$= 2(9a^{2}) - 9a + 4$$

$$= 18a^{2} - 9a + 4$$

$$3f(a) = 3(2a^{2} - 3a + 4)$$

$$= 6a^{2} - 9a + 4$$

$$f(x) = 2x^{2} - 3x + 4$$

$$f(x) = 2(x^{2} - 3x + 4)$$

$$= 6a^{2} - 9a + 12$$

$$f(x) = 2(x^{2} - 3x + 4) + 4$$

$$= 2(x^{2} + 4x + 4) - 3(x + 2) + 4$$

$$= 2x^{2} + 8x + 8 - 3x - 6 + 4$$

$$f(x+2) = 2x^{2} + 5x + 6$$

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