

1. Given $2x^2 - x$, find the following and simplify:

(a) $f(x+h)$

$$\begin{aligned} f(x+h) &= 2(x+h)^2 - (x+h) \\ &= 2(x+h)(x+h) - x - h \\ &= 2(x^2 + 2xh + h^2) - x - h \\ &= \boxed{2x^2 + 4xh + 2h^2 - x - h} \end{aligned}$$

(b) $f(x+h) - f(x)$

$$\begin{aligned} &2x^2 + 4xh + 2h^2 - x - h - (2x^2 - x) \\ &= \cancel{2x^2} + 4xh + 2h^2 - \cancel{x} - h - \cancel{2x^2} + \cancel{x} \\ &= \boxed{4xh + 2h^2 - h} \end{aligned}$$

(c) $\frac{f(x+h) - f(x)}{h}$

$$\begin{aligned} &\frac{4xh + 2h^2 - h}{h} \\ &= \cancel{h}(4x + 2h - 1) \\ &= \boxed{4x + 2h - 1} \end{aligned}$$

(d) If you let $h = 0$, what do you get from your answer in part (c)?

$$4x + 0 - 1 = \boxed{4x - 1}$$

2. Given $3x^2 - 5x - 4$, find the following and simplify:

(a) $f(x+h)$

$$\begin{aligned} f(x+h) &= 3(x+h)^2 - 5(x+h) - 4 \\ &= 3(x+h)(x+h) - 5x - 5h - 4 \\ &= 3(x^2 + 2xh + h^2) - 5x - 5h - 4 \\ &= \boxed{3x^2 + 6xh + 3h^2 - 5x - 5h - 4} \end{aligned}$$

(b) $f(x+h) - f(x)$

$$\begin{aligned} &3x^2 + 6xh + 3h^2 - 5x - 5h - 4 \\ &- (3x^2 - 5x - 4) \\ &= \cancel{3x^2} + 6xh + 3h^2 - \cancel{5x} - 5h - \cancel{4} \\ &\quad - \cancel{3x^2} + \cancel{5x} + \cancel{4} \\ &= \boxed{6xh + 3h^2 - 5h} \end{aligned}$$

(c) $\frac{f(x+h) - f(x)}{h}$

$$\begin{aligned} &\frac{6xh + 3h^2 - 5h}{h} \\ &= \cancel{h}(6x + 3h - 5) \\ &= \boxed{6x + 3h - 5} \end{aligned}$$

(d) If you let $h = 0$, what do you get from your answer in part (c)?

$$6x + 3(0) - 5 = \boxed{6x - 5}$$

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Universal Relations for Binary Neutron Star Mergers with Long-lived Remnants Praveen Manoharan, 2022-03-28 In the last 25 years, an extensive body of work has developed various equations of state independent or approximately universal relations that allow for the inference of neutron star parameters from gravitational wave observations. These works, however, have mostly been focused on singular neutron stars, while our observational efforts at the present and in the near future will be focused on binary neutron star (BNS) mergers. In light of these circumstances, the last five years have also given rise to more attempts at developing universal relations that relate BNS pre-merger neutron stars to stellar parameters of the post-merger object, mostly driven by numerical relativity simulations. In this thesis, a first attempt at perturbatively deriving universal relations for binary neutron star mergers with long-lived neutron star remnants is presented. The author succeeds in confirming previous results relating pre-merger binary tidal deformabilities to the f mode frequency of the post-merger object. Combining this result with recent advances of computing the f mode frequency of fast rotating neutron stars, he also derives a combined relation that relates the pre-merger binary tidal deformability of a BNS to the effective compactness of a long-lived neutron star remnant. Finally, he also proposes a direct relation between these quantities with improved accuracy.

Radiative Neutron Capture Sergey Borisovich Dubovichenko, 2019-02-19 The work provides an overview on modern nuclear astrophysics by summarizing recent achievements in studies of light nuclei and thermonuclear processes at low and ultralow energies in the Universe. Special focus lies on mathematical methods and computer programs for calculating nuclear characteristics for thermonuclear reactions.

Breakthrough to Math Stephanie Irwin, New Readers Press, 1993-03 Extra exercises related to the six volumes of Level 1.

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