Math101 Name:

Quiz#1 ID No:

AAAAA Serial No:

1- The displacement (in meter) of a particle moving in a straight line is given by $s(t) = 3t^2 + 1$, where t is measured (in seconds).

a) Find the average velocity over the time interval [0, 5].

b) Use limits to find the instantaneous velocity of the particle when t=4.

2- Evaluate the limit, if it exists

$\lim_{x\to -2}\left(\frac{x^3-4x}{x^2-x-6}\right)$.

3- Use Sandwich Theorem, to find

$\lim_{x\to 5}\left((x-5)^{60}\cdot \sin\frac{\pi}{6-x^6}\right)$.

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1- Evaluate the limit, if it exists

$\lim_{x\to -2}\left(\frac{x^3-4x}{x^2-x-6}\right)$.

2- Use Sandwich Theorem, to find

$\lim_{x\to 3}\left((x-3)^{60}\cdot \sin\frac{\pi}{6-x^6}\right)$.

3- The displacement (in meter) of a particle moving in a straight line is given by $s(t) = 3t^2 + 1$, where t is measured (in seconds).

c) Find the average velocity over the time interval [0, 6].

d) Use limits to find the instantaneous velocity of the particle when t=2.