

An (Average) Change Is Gonna Come

Date_____ Period____

For each problem, find the average rate of change of the function over the given interval.

1) $g = -2t^2 - 2; [1, \frac{3}{2}]$

2) $g(w) = -w^2 + w - 1; [2, \frac{5}{2}]$

3) $g = 2s^2 + 2s + 2; [-2, -\frac{3}{2}]$

4) $f(w) = -w^2 - 2w - 2; [0, \frac{1}{2}]$

5) $s = -\frac{1}{r+1}; [1, \frac{3}{2}]$

6) $f(r) = \frac{1}{r+1}; [0, \frac{1}{2}]$

7) $y = -2x^2 + 2; [-1, -\frac{1}{2}]$

8) $f(x) = -\frac{1}{x-3}; [0, \frac{1}{2}]$

9) $f = -t^2 + 1; [-2, -\frac{3}{2}]$

10) $h = -r^2 + r - 2; [0, \frac{1}{2}]$

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 $\textcolor{red}{-5}$

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 $\textcolor{red}{-\frac{7}{2}}$

3) $g = 2s^2 + 2s + 2; [-2, -\frac{3}{2}]$

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4) $f(w) = -w^2 - 2w - 2; [0, \frac{1}{2}]$

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5) $s = -\frac{1}{r+1}; [1, \frac{3}{2}]$

 $\textcolor{red}{\frac{1}{5}}$

6) $f(r) = \frac{1}{r+1}; [0, \frac{1}{2}]$

 $\textcolor{red}{-\frac{2}{3}}$

7) $y = -2x^2 + 2; [-1, -\frac{1}{2}]$

 $\textcolor{red}{3}$

8) $f(x) = -\frac{1}{x-3}; [0, \frac{1}{2}]$

 $\textcolor{red}{\frac{2}{15}}$

9) $f = -t^2 + 1; [-2, -\frac{3}{2}]$

 $\textcolor{red}{\frac{7}{2}}$

10) $h = -r^2 + r - 2; [0, \frac{1}{2}]$

 $\textcolor{red}{\frac{1}{2}}$