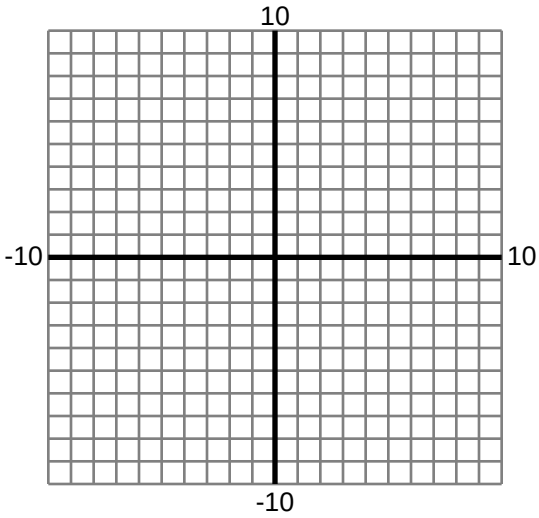
Name : _____ Score : _____

Teacher : _____ Date : _____

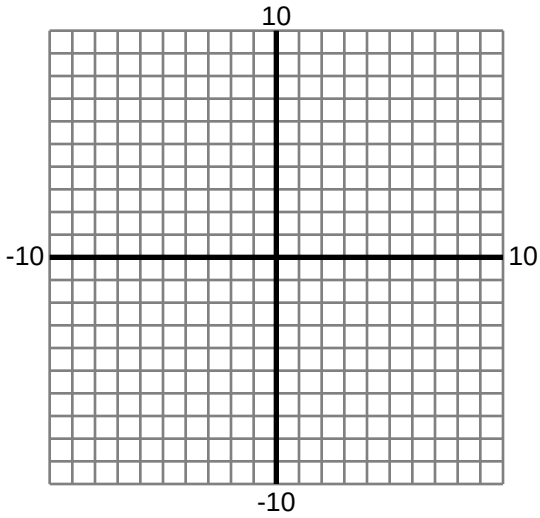
Horizontal Tangents

Graph the function. Find and draw the horizontal tangents. Round to two decimals if necessary.

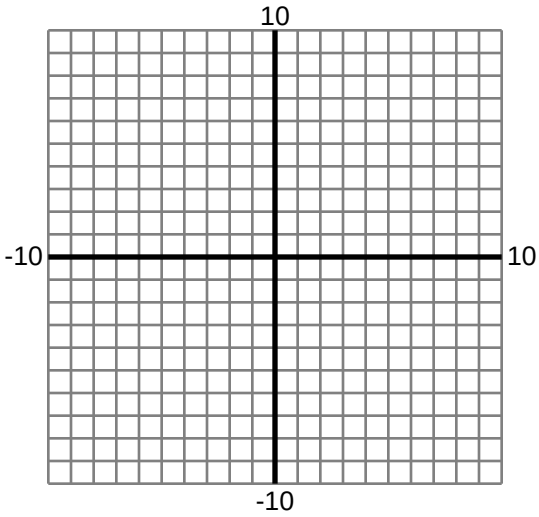
1) $y = \sin(\frac{-1}{4}x - 1) - 3$



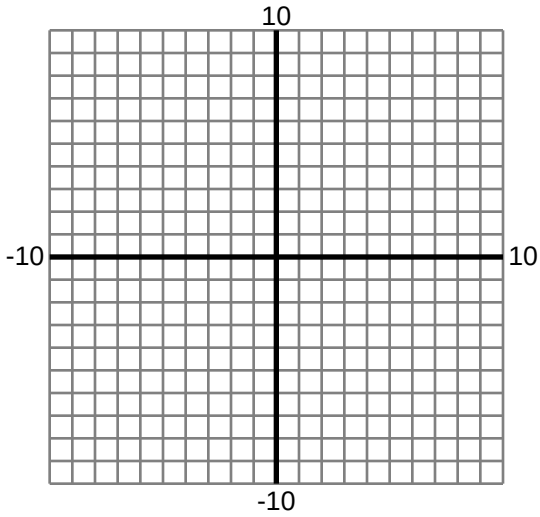
2) $y = 2\sec(\frac{-1}{3}x + 3) + 2$



3) $y = -\frac{1}{12}x^3 + \frac{3}{4}x^2 - \frac{9}{4}x$



4) $y = -\frac{1}{3}x^3 + 3x^2 - 8x$



Math-Aids.Com
Calculus Worksheets

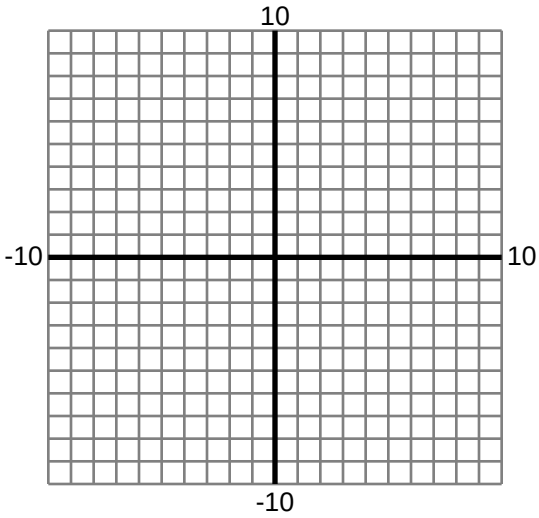
Name : _____ Score : _____

Teacher : _____ Date : _____

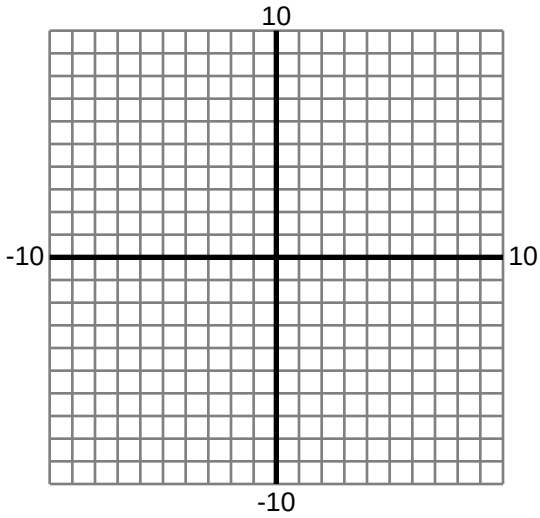
Horizontal Tangents

Graph the function. Find and draw the horizontal tangents. Round to two decimals if necessary.

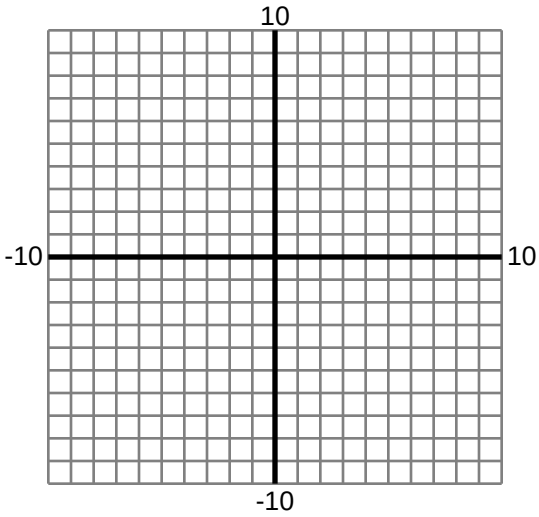
5) $y = \frac{1}{x} + \frac{x}{4} - 2$



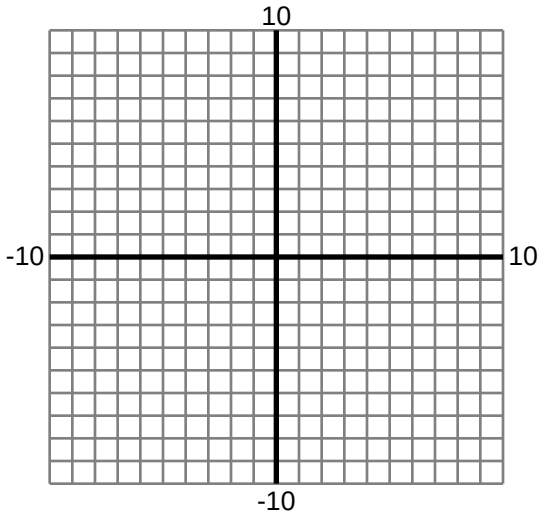
6) $y = -\cos(\frac{1}{2}x - 3) + 3$



7) $y = \frac{1}{4}x^2 + \frac{5}{2}x$



8) $y = \frac{x^2}{2(x - 3)}$



Math-Aids.Com
Calculus Worksheets

Name : _____ Score : _____

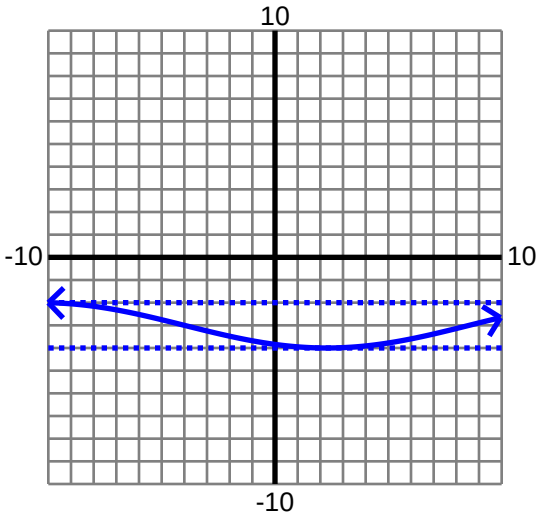
Teacher : _____ Date : _____

Horizontal Tangents

Graph the function. Find and draw the horizontal tangents. Round to two decimals if necessary.

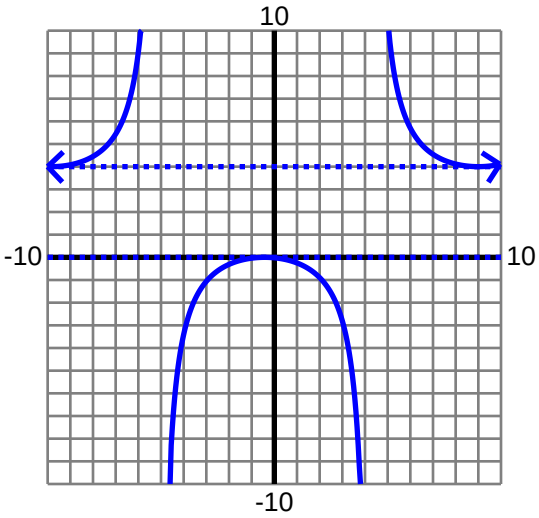
1) $y = \sin(\frac{-1}{4}x - 1) - 3$

$x = -10.283 + 4n\pi$, where n is any integer



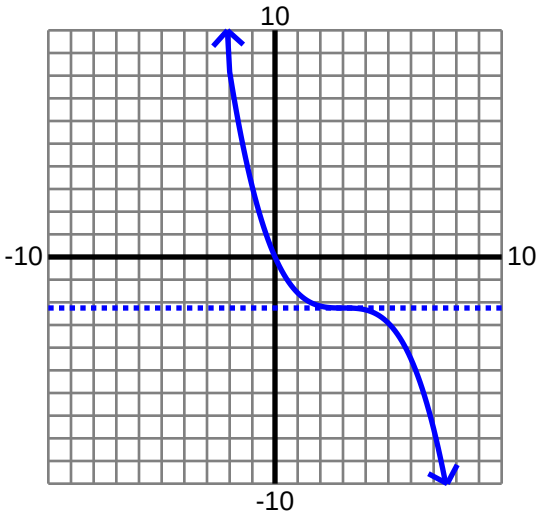
2) $y = 2\sec(\frac{-1}{3}x + 3) + 2$

$x = 9 + 3n\pi$, where n is any integer



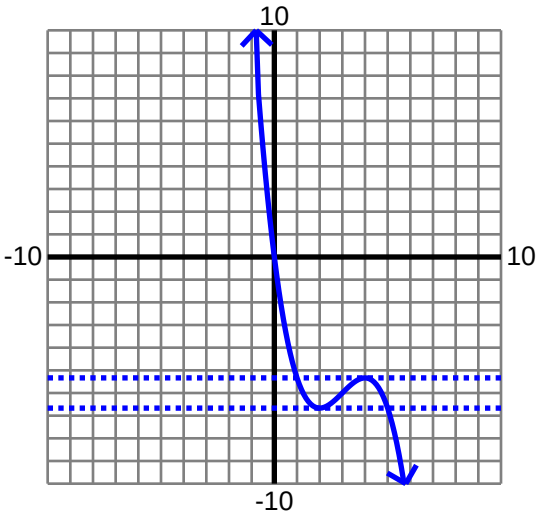
3) $y = -\frac{1}{12}x^3 + \frac{3}{4}x^2 - \frac{9}{4}x$

$x = 3$



4) $y = -\frac{1}{3}x^3 + 3x^2 - 8x$

$x = 2, 4$



Math-Aids.Com
Calculus Worksheets

Name : _____ Score : _____

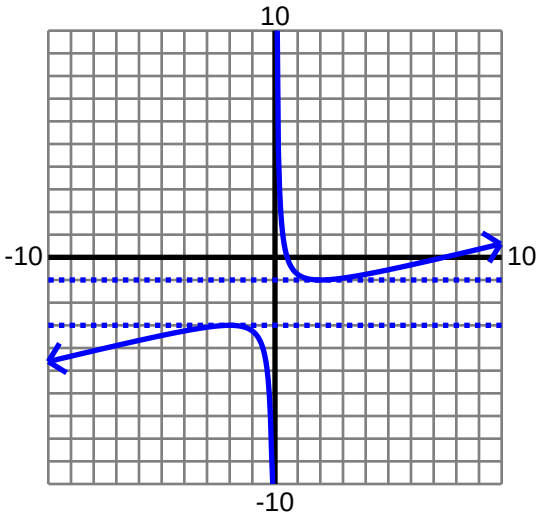
Teacher : _____ Date : _____

Horizontal Tangents

Graph the function. Find and draw the horizontal tangents. Round to two decimals if necessary.

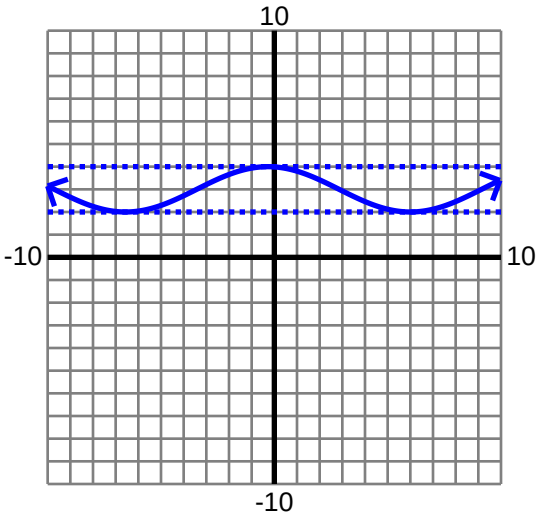
5) $y = \frac{1}{x} + \frac{x}{4} - 2$

x = -2, 2



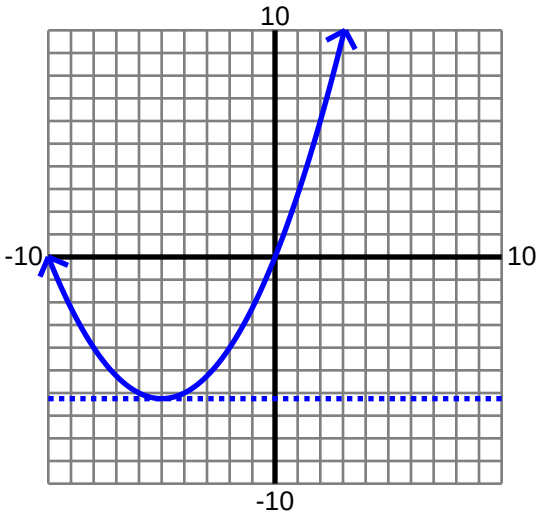
6) $y = -\cos(\frac{1}{2}x - 3) + 3$

x = 6 + 2nπ, where n is any integer



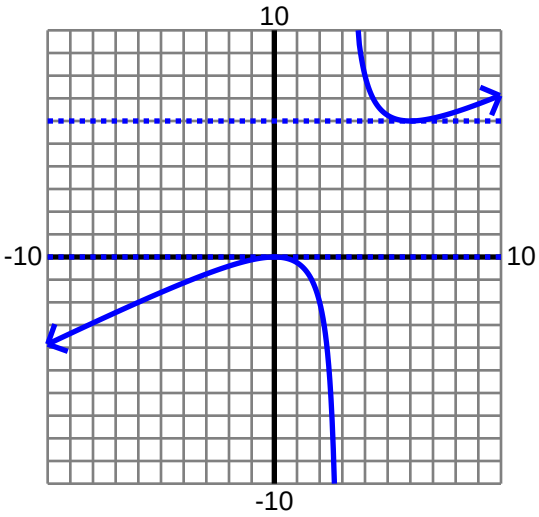
7) $y = \frac{1}{4}x^2 + \frac{5}{2}x$

x = -5



8) $y = \frac{x^2}{2(x - 3)}$

x = 0, 6



Math-Aids.Com
Calculus Worksheets