

Name: _____

Show work needed to justify your answer.

Date: _____

HW: # 16: Math IBSL - Standard 16 -Rational Functions [$f(x) = (ax+b)/(cx+d)$]

5 points



- 1** For each function, find the equations of the horizontal and vertical asymptotes, then write down the domain and range.

b $y = \frac{2x+3}{x+1}$

d $y = \frac{2-3x}{5-4x}$

e $y = \frac{9x-2}{6-3x}$

5 Solve:

a $\frac{5}{2x} + \frac{x+7}{x+4} = 2$

d $\frac{x+5}{x+8} = 1 + \frac{6}{x+1}$

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2 Match these equations to their graphs and give reasons for your answer.

a $y = \frac{4}{x}$

b $y = \frac{x-3}{x+2}$

c $y = \frac{2x-3}{x+2}$

d $y = \frac{3-2x}{x+2}$



