## Quiz: HSA.APR.D. 7

1. What is the sum of the terms shown below?
$\frac{1}{x^{2}+x-6}-\frac{2}{x^{2}-x-2}+\frac{3}{x^{2}+4 x+3}=$
Write your answer in simplest terms in the space provided. Leave the denominator in factored form.
2. In the equation below, each rational expression is in simplest terms.

If $a<b$, what values for $a$ and $b$ make the equation true?
$\frac{10 x-b}{x^{2}+x-20} \cdot \frac{x+a}{3 x-9}=\frac{10}{3(x+5)}$
$a=$ $\qquad$
$b=$ $\qquad$
Write your answers in the spaces provided.

