Student Edition

Quiz: HSA.APR.D.7

1. What is the sum of the terms shown below?

$$\frac{1}{x^2+x-6} - \frac{2}{x^2-x-2} + \frac{3}{x^2+4x+3} = \underline{\hspace{1cm}}$$

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?

$$\frac{10x - b}{x^2 + x - 20} \cdot \frac{x + a}{3x - 9} = \frac{10}{3(x + 5)}$$

Write your answers in the spaces provided.

