

Write the partial fraction decomposition of each rational expression

1.  $\frac{2s-1}{(s+1)(s-2)}$

2.  $\frac{2s-2}{(s-4)(s+2)}$

3.  $\frac{7s^2+3s+16}{(s+1)(s^2+4)}$

4.  $\frac{1}{(s+2)^2(s^2+9)}$

5.  $\frac{s}{(s+2)^2(s^2+9)}$

6.  $\frac{1}{(s+1)^2(s^2-4)}$

7.  $\frac{7s^2+20s+53}{(s-1)(s^2+2s+5)}$

8.  $\frac{s^2+1}{s^3-2s^2-8s}$

9.  $\frac{1}{x^2+2x}$

10.  $\frac{2x+1}{x^2-7x+12}$