

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. $\frac{1}{s^2-4}$

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

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

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

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