5-3 Asymptotes

Determine any horizontal, vertical, or slant asymptotes for each function. Also make a special note if the graph has a hole anywhere.
If none exist, just write "none."

1. $y = \frac{x}{x^2 - x - 12}$ H = _____ V = _____ S = _____

2. $y = \frac{x+5}{x^2 + 3x + 2}$ H = _____ V = _____ S = _____

3. $y = \frac{3x^2 + 4x - 2}{x}$ H = _____ V = _____ S = _____

4. $y = \frac{x^2 + x - 6}{x - 2}$ H = _____ V = _____ S = _____

5. $y = \frac{x^2 + 5x + 3}{x + 2}$ H = _____ V = _____ S = _____

6. $y = \frac{x^2}{x - 6}$ H = _____ V = _____ S = _____

7. $y = \frac{x}{x^2 - x - 12}$ H = _____ V = _____ S = _____