$$\lim_{x \to \pm \infty} f(x)$$

1. Find the positive horizontal asymptote(s) if they exist for each of the following:

$$\frac{x+2}{6x-4} \qquad \qquad \frac{3x^2-x-2}{5x^2+4x+1}$$

$$\frac{x^2 - x}{3x - 5}$$

$$\frac{x^2 + x}{3 - x} \qquad \qquad \frac{x - 2}{x^2 + 1}$$

Check your answers by reading Examples 3, 10, 4, 11 & problem #17 from §2.6.